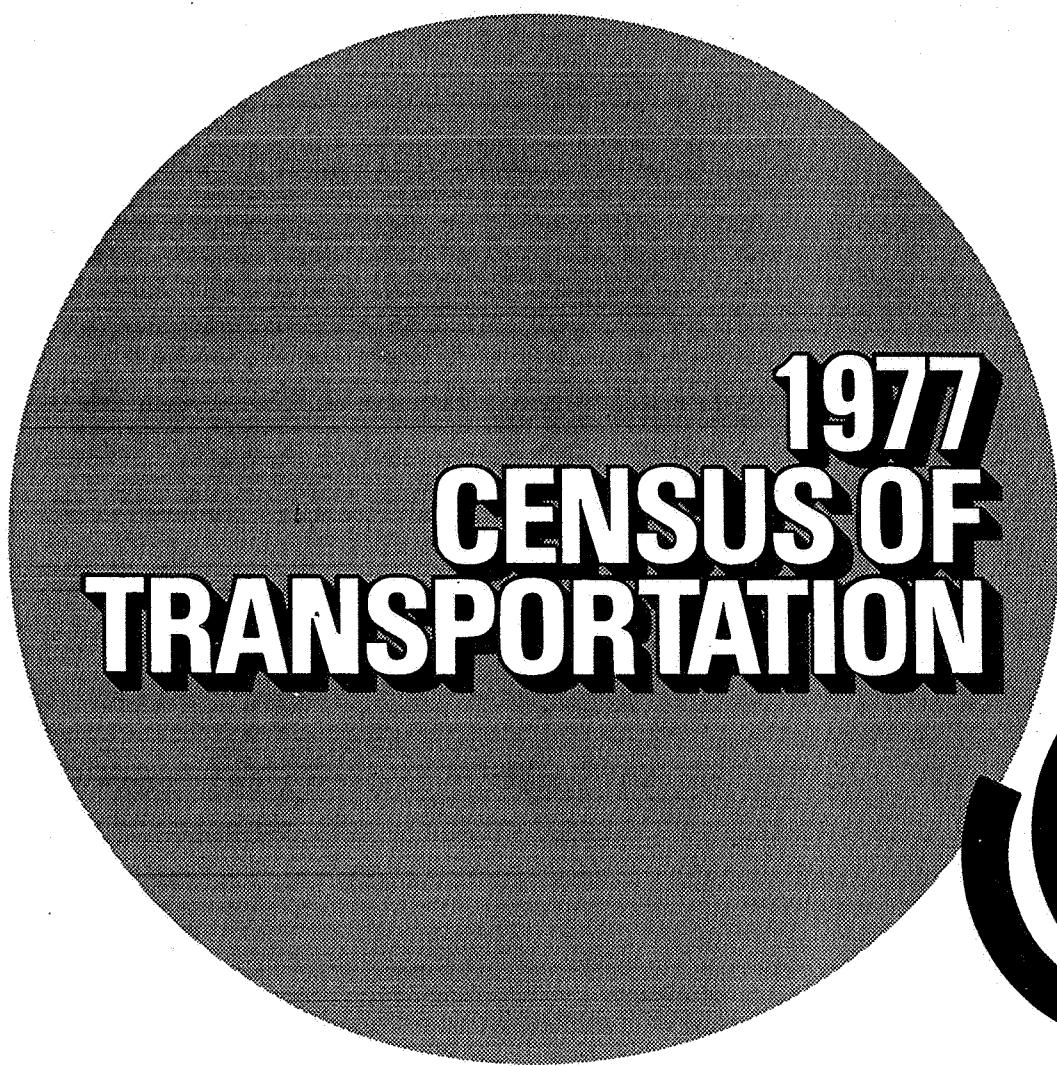
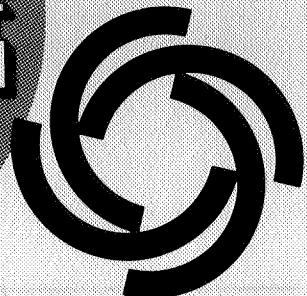


Truck Inventory and Use Survey

South Dakota



1977 CENSUS OF TRANSPORTATION



Truck Inventory and Use Survey

South Dakota



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INTRODUCTION

HISTORY OF THE ECONOMIC CENSUSES

The economic censuses are comprehensive and periodic canvasses of the Nation's industrial and business activities. Taken by the Census Bureau, a part of the U.S. Department of Commerce, the censuses provide a detailed statistical profile of a large segment of the national economy.

The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. All other decennial censuses through 1900, except in 1830, contained questions on manufacturing. In 1904 the quinquennial census of manufacturing began. Although some distributive trade data were collected in the decennial census of 1840, the first census of business was taken in 1929. It covered only retail and wholesale trades, but beginning with the second business census in 1933 and in succeeding censuses various services also have been included. The censuses were taken at varying intervals until 1954, when an integrated economic census program was begun covering the retail and wholesale trades, selected service industries, manufactures, and minerals industries. The 1963 Economic Censuses were expanded to include transportation and commercial fisheries. Beginning with the 1967 censuses, Congress authorized the economic censuses to be taken at 5-year intervals covering years ending in "2" and "7".

USES OF THE ECONOMIC CENSUSES

The economic censuses are the primary source of facts about the structure and functioning of the economy and, therefore, provide information essential for both government and business. The censuses furnish an important part of the framework for such composite measures as the national accounts. In forecasting and planning, they are especially useful in analyzing the national product in terms of the transactions that determine its size and composition. The economic censuses also provide weights and benchmarks for indexes of industrial production, productivity, and price, all of which are essential for understanding current economic developments.

Manufacturers and distributors make widespread use of the economic censuses in establishing measures of their potential markets by areas, kinds of businesses, and kinds of products. Management in various industries and trades get facts from them for use in economic or sales forecasting, analyzing sales performance, laying out sales territories, allocating advertising budgets, and locating plants, warehouses, and stores. Trade organizations use census statistics for insight into changes in the structure of industry. State and local governments use the

geographic detail that describes the patterns of economic change in individual communities.

Following every census, reports are purchased by thousands of businesses and other users; likewise, census facts are widely disseminated by trade associations, business journals, and the daily press. Volumes containing census statistics are available in most major public and college libraries.

AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which direct that they be taken at 5-year intervals. The 1977 Economic Censuses covered manufacturing, mining and quarrying, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. The next economic censuses are scheduled to be taken in 1983 covering the year 1982.

CENSUS OF TRANSPORTATION

The 1977 Census of Transportation consists of four surveys:

1. Truck Inventory and Use.
2. National Travel.
3. Commodity Transportation.
4. Nonregulated Motor Carriers and Public Warehousing.

These surveys were previously taken in 1963, 1967, and 1972.

TRUCK INVENTORY AND USE SURVEY

The Truck Inventory and Use Survey provides data on the physical and operational characteristics of the Nation's truck population. It is based on a probability sample of private and commercial trucks registered (or licensed) in the State during 1977.¹

Vehicles owned by Federal, State, and local governments, as well as ambulances, buses, and motor homes, were eliminated from the sample before questionnaires were mailed. Various other vehicles which were actually surveyed were subsequently classified as "out-of-scope": Trucks sold prior to 1977, farm tractors, open jeep models, unpowered trailer units, trucks reported to have been junked or wrecked prior to the registration year, etc. For the first time, however, certain small utility-type vehicles built on pickup and van chassis were

¹Because of variances in registration procedures, Oklahoma's sample was drawn from 1978 registrations.

included in the sample. Many States allow pickups and small vans to be registered as cars or trucks; therefore, the passenger car files were searched and any such trucks were included in the sample universe. Some privately or commercially owned vehicles do not have to be licensed, such as "off-highway" trucks used exclusively on private property, and since they had no chance of being drawn in the sample, they are not covered in the survey.

TOTAL TRUCK INVENTORY

The estimated number of trucks that were within the scope of the TIU Survey and registered in the State as of July 1, 1977, was 182.6 thousand.

This estimate serves as the benchmark to which the survey results were adjusted to produce the more detailed estimates contained in this report. It was developed through a review of the characteristics of each vehicle registered in the State.

All previous TIU surveys were benchmarked to Federal Highway Administration (FHWA) totals of private and commercial truck registrations as reported in Highway Statistics, table MV-1. These FHWA estimates are based on calendar year summary reports from the individual States that reflect differences in truck definitions used by the States for vehicle registration.

The FHWA estimate of the number of private and commercial trucks registered in the State as of December 31, 1977, was 196.6 thousand.

COMPARABILITY WITH PREVIOUS SURVEYS

Although the basic purpose and scope of the previous TIU surveys were essentially identical to this one, some changes were introduced in 1977 that may affect all the data in this report or just specific items.

1977 changes affecting all the data

1. The estimates developed for the total inventory for a State are no longer adjusted by the FHWA data. For 1977, the universe estimates represent the base from which the sample was drawn (see Total Truck Inventory).
2. The item-by-item computer edit was extended to perform various consistency checks between data entries in an effort to identify and correct major errors and/or contradictions in reporting.
3. Stratification was based upon "small" vs. "large" trucks (body type) rather than "light" vs. "heavy" trucks (registered weight) as in previous surveys. The sample was reallocated among the States with an increase in total sample size of 4 percent. Random sampling replaced the systematic sampling of the 1972 survey.

1977 changes affecting specific items¹

1. Item 4, Lease characteristics—Additional questions were asked concerning any lessee of the sampled truck and the nature of the lease or rental agreement.

2. Item 5, Classification of operator—Respondents were asked to classify their operations according to "not for hire" (either a private individual or a business transporting its own goods or services) or "for hire" (interstate or intrastate carriers).
3. Item 6, Major use of the truck or combination—Wholesale and retail trades were made separate items and an entry for daily rental/short term lease operations was added.
4. Item 7, Products carried—Trucks used for personal transportation, as craftsman's vehicles, or with special equipment (cranes, winches, etc.) each had their own entry; in 1972 they were treated collectively. Respondents were also asked to identify a secondary product carried, if any.
5. Item 8, Hazardous materials—This item was added to determine the extent of hazardous materials (as defined by Federal regulations) being transported in the Nation.
6. Item 9, Base of operation, and Item 11, Area of operation—Both items were expanded to provide more precise information concerning the percentage of miles traveled within the State where the sampled truck was based and the range of that travel. In addition to "local" and "over-the-road," an "off-the-road" category was included.
7. Item 12, Vehicle miles and miles per gallon—For the first time, an effort was made to determine fuel efficiency figures for trucks in addition to annual and lifetime miles.
8. Item 13, Maintenance—Specific examples of "major maintenance" were listed along with the previous question on where such maintenance was performed.
9. Item 15-20, Various physical characteristics—In an effort to get a more detailed picture of each sampled truck, several new questions were added covering number of cylinders, cubic inch displacement, horsepower rating, type of transmission and braking system, fuel conservation equipment, etc.
10. Item 21, Type and size of body—Boat transports and mobile home pullers were added to the list and lowboys were made a separate category (rather than being included with other platforms). Garbage haulers and cement mixers were given subgroups according to the various models generally in use.
11. Item 25, Cab type—This item was expanded to five of the most common cab types. It also inquired whether the sampled cab contained a sleeping unit.

EXPLANATION OF TERMS

Vehicle size—The size classification is based on the gross vehicle weight (empty weight of the vehicle plus the maximum carried load) at which the vehicle operated during the past 12 months. The four size classes are:

1. Light—Gross vehicle weight of 10,000 pounds or less.
2. Medium—Gross vehicle weight of 10,001 to 19,500.
3. Light-heavy—Gross vehicle weight of 19,501 to 26,000.
4. Heavy-heavy—Gross vehicle weight of 26,001 pounds or more.

¹ See report form TC-200 reproduced in appendix A for specific information requested for each truck in sample.

Operator classification—This item consists of two major categories, not for hire and for hire:

Not for hire—Includes a private owner or a company which transports its own materials or merchandise.

For hire

1. Interstate, exempt carrier, includes those operators who are not required to have an I.C.C. certificate because they transport only exempt commodities or operate in an exempt zone.
2. Interstate, I.C.C. certified contract carrier, includes those operators who carry the goods of someone other than the vehicle owner by individual contract or agreement.
3. Interstate, I.C.C. certified common carrier, includes those operators who offer service to the general public, usually operating a regularly scheduled service between established terminals over a more or less regular route.
4. Intrastate, Local cartage, includes those operators who travel only within the State of registration or are engaged in local cartage.
5. Daily rental includes those operators who offer short term truck rental or leasing without a driver. (This category was created during the data processing of the survey forms. Respondents who checked "daily rental or short term lease" under the "major use" item were assigned "daily rental" under "classification of operator.")

Major use—This item is based on the answer to the question, "How was the vehicle mostly used during the past 12 months?" (see item 6 of the survey form in appendix A). Each of the 12 specific major use categories conforms to the generally accepted meaning of the terms. Responses to the "Other" category were recoded to one of the 12 specific categories if possible. The following are frequent "Other" responses which were recoded.

1. House moving was recoded to "For hire transportation."
2. Trucks used in conjunction with railroads were recoded to "For hire transportation."
3. Armored car services were recoded to "Services."
4. Commercial fishing was recoded to "Agriculture."
5. Oilfield services were recoded to "Mining and quarrying."
6. Certain specialized activities commonly thought of as services, such as plumbing, painting, plastering, carpentry, and electrical work, were recoded to "Construction."

U.S. mail service, United Parcel Service delivery, antique trucks, and yard tractors were left in "Other."

The category "Not in Use" in the tables includes vehicles which, though licensed, were not used during the survey year, and those vehicles which were wrecked during the entire year.

Products carried—This item includes broad classifications of agricultural, manufacturing, and mineral products, as well as special categories of materials carried by trucks. Responses to the "Other" category were recoded to one of the 22 specific categories if possible. The following are frequent "Other" responses which were recoded:

1. Crews of workers and their tools were recoded to "Craftsman's vehicle."

2. Flowers, trees, shrubs, etc., were recoded to "Farm products."
3. Animal by-products were recoded to "Scrap, refuse, or garbage."
4. Clay was recoded to "Mining products."
5. Auto parts (including tires) were recoded to "Transportation equipment."

Dirt, sporting goods, caskets, unspecified fiber glass products, house moving, and manufactured plastic products were left in "Other."

Hazardous materials—This category was designed to identify those trucks which regularly transport hazardous materials in quantities large enough to require a placard under the Code of Federal Regulations, Title 49, Transportation.

Truck fleet size—The size of the truck fleet is based on the number of trucks operated by a truck owner from a single "base of operation" (see item 9 of the survey form in appendix A). The fleet located at the "base of operation" is an operational unit and is necessarily smaller than the total fleet that an owner has if he operates from more than one base. The data shown in the "Truck Fleet Size" section of the tables are based on the number of trucks found in fleets of specified size and not the number of fleets. (If item 10 of the survey form was unanswered, the vehicle was assumed to be in a fleet of one, classified in accordance with the reported vehicle type.)

Range of operation—The area in which the vehicle usually operates is classified as one of the following:

1. Local—Mostly in the local area, i.e., in or around the city and suburbs, or within a short distance of the farm, factory, mine, or other place where the vehicle is stationed.
2. Short range—Mostly over the road (beyond the local area), but usually not more than 200 miles one way to the most distant stop from the place where the vehicle is stationed.
3. Long range—Mostly over the road, usually more than 200 miles one way to the most distant stop from the place where the vehicle is stationed.
4. Off-the-road—Mostly off the road operation (usually associated with construction and farming).

Body type—This category includes the type of body that is either permanently attached to the power unit (i.e., straight truck) or most frequently used with a truck tractor as a tractor-trailer combination. Entries in the "Other" category were recoded if possible to a specific category. Those vehicles remaining in the "Other" category included yard tractors and truck tractors used in house moving.

Annual miles—Respondents were asked to report the total number of miles the truck was driven during the past 12 months. If the vehicle had less than 1 year's use, the respondent was asked to estimate the probable miles for a full year. If there was no response to the item, the annual miles were estimated (based on lifetime miles, length of time the vehicle was owned, body type, area of operation, vehicle type, and fuel type).

SAMPLE DESIGN

The Truck Inventory and Use Survey (at the national level) was based on a stratified probability sample of about 117,000 trucks drawn from an estimated universe of approximately 28 million current registrations on file with motor vehicle departments in the 50 States and the District of Columbia.

The first stratification was at the State level based on the total number of trucks registered annually. There were three major strata:

1. Large States—over 1.5 million trucks.
2. Medium States—700,000 to 1.5 million trucks.
3. Small States—Less than 700,000 trucks.

The second stratification was based on body type. Each State was stratified into "small" trucks and "large" trucks. The "small" truck stratum consisted of pickups, panel trucks, vans, multi-stops, and walk-ins with a gross vehicle weight of 14,000 pounds or less. All other vehicles were classified as "large." Within each stratum, a random sample of vehicles was selected.

The allocation of the sample within the States was based on setting levels which would produce the best estimates in a published category. From previous experience, it was determined that a level sample of 600 trucks from the small truck stratum would be sufficient in every State except California, Texas, and the District of Columbia.

In the large truck stratum, a differential sampling rate was employed based on the percentage of large trucks in the State. In the two largest States, 3,000 large trucks were sampled. In the medium States, 2,200 were sampled. The other States had large truck sample sizes of 2,000, 1,600, or 1,200 depending upon the percentage of large trucks in each State's truck population. A total of 900 large trucks were sampled from the District of Columbia. Specific target sample sizes by State are listed below.

SURVEY METHOD

Report Form TC-200 was mailed to owners of those trucks selected for the 1977 TIU sample. The owner was asked to respond only for the vehicle identified by license number in item 1 of the report form, whether or not he or she was still the owner. Item 1 data (make, year model, registered weight, license number, vehicle identification number) were imprinted on the form from the State registration records. The returned

questionnaires were manually edited and coded. The information received was data-keyed and processed through an extensive computer edit. Reports which contained questionable responses were referred and corrected if necessary. Estimates of the number of trucks with each characteristic were obtained by expanding the sampled units to the State truck population level.

RELIABILITY OF ESTIMATES

The figures shown in this report are estimated from a sample and will differ from the figures which would have been obtained from a complete census. Two types of possible errors are associated with estimates based on data from sample surveys: Sampling errors and nonsampling errors. The accuracy of a survey result depends not only on the sampling errors and nonsampling errors measured, but also on the nonsampling errors not explicitly measured.

For particular estimates, the total error may considerably exceed the standard errors shown. The following is a description of the sampling and nonsampling errors associated with the estimates made from the sample selected for the 1977 Truck Inventory and Use Survey.

Sampling errors—The particular sample used in this survey is one of a large number of all possible samples of the same size that could have been selected using the same sample design. Estimates derived from the different samples would differ from each other. The standard error or sampling error is a measure of the variation among the estimates from all possible samples.

The standard errors presented in the tables estimate the sampling variability and thus measure the precision with which the estimate from the particular sample selected for this survey approximates the average result of all possible samples. As derived, the estimated standard errors include part of the effect of the nonsampling errors.

Sampling errors in these tables are given in absolute terms. For example, if an estimate is in units of thousands then the estimated standard error is given in units of thousands. Except for table 2, estimated standard errors are given only for the top row of estimates and the left column of estimates. The procedure for approximating the standard errors for the other estimates is covered in appendix B.

The sample estimate and an estimate of its standard error can be used to construct interval estimates with a prescribed confidence that the interval includes the average result of all

Trucks in target sample

	Total	Total	Per State		States in strata
			Large	Small	
Large States	8,000	4,000	3,000	1,000	2-Calif., Tex.
Medium States ...	28,000	2,800	2,200	600	10-Fla., Ga., Ill., Ind., Mich., Mo., N.Y., Ohio, Okla., Pa.
Small States	10,400	2,600	2,000	600	4-N.J., N.C., N. Dak., Oreg.
	41,800	2,200	1,600	600	19-Ala., Conn., Del., Hawaii, Iowa, Kans., Ky., La., Md., Mass., Minn., Mont., Neb., N.H., R.I., S.C., S. Dak., Wyo., Va.
	27,000	1,800	1,200	600	15-Alaska, Ark., Ariz., Colo., Idaho, Maine, Miss., Nev., N. Mex., Tenn., Utah, Vt., Wash., Wis., W. Va.
	1,200	1,200	900	300	1-D.C.

samples. To illustrate, if all possible samples were surveyed under essentially the same conditions, and an estimate and its estimated standard error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average value of all possible samples.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average value of all possible samples.
3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average value of all possible samples.

Example—The estimated number of pickup trucks in construction for a State is 15.0 thousand with a standard error of 2.0 thousand. An approximate 90 percent confidence interval (plus or minus 1.6 standard errors) is from 11.8 thousand trucks to 18.2 thousand trucks.

Other types of estimates may be derived from these tables, such as the difference, sum, or ratio of two estimates, or the expression of a published figure as a percent. The procedure for approximating the standard error of these estimates is covered in appendix C.

Nonsampling errors—All surveys and censuses are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: Inability to obtain responses from all cases in the sample, inability or unwillingness on the part of respondents to provide correct information, imputation for item nonresponse, response errors and bias, mistakes in recording or keying data, errors of collection or processing, difficulty interpreting questions, and coverage problems due to differing registration practices and implementation in some of the States. In addition to response errors, some degree of response variability is introduced when respondents estimate values.

Explicit measures of the effects of these nonsampling errors

are not available. However, it is believed that most of the important operational and response errors were detected and corrected through a systematic clerical edit and an automated data edit designed to review the data for reasonableness and consistency. Quality control techniques were used to verify that operating procedures were carried out as specified.

Nearly all types of nonsampling errors that affect this survey would also occur in a complete census. Since surveys are conducted on a smaller scale than censuses, nonsampling errors can be controlled more tightly. Relatively more funds and effort can be expended toward eliciting responses, detecting and correcting response error, and reducing processing errors. As a result, survey results can often be more accurate than census results.

Ninety percent of the questionnaires were returned, with item response rates in excess of 95 percent for most of the major questions. For most estimates in these tables, total nonresponse is handled by allocating the unreturned questionnaires in proportion to the respondents. For each category in the tables, the item nonresponse (respondents not answering the item on the questionnaires) is given on a separate line. For example, respondents who did not indicate the major use of their truck are included in the "Not reported" category. The number given represents the number of trucks not allocated to a particular major use. Users should exercise caution in allocating these trucks to the major uses, since the characteristics of item nonrespondents may differ significantly from those of the respondents.

For some questions, a response was generated to fill a blank on the questionnaire. If annual miles and/or lifetime miles were not given, data were always imputed. When only the annual miles were not given they were imputed based on the reported lifetime miles and the age of the vehicle. When only the lifetime miles were not given, they were imputed based on the reported annual miles and the age of the vehicle. If both questions were left blank, the characteristics used to aid in imputation were body type, age of vehicle, vehicle size, and engine type. Engine characteristics and body characteristics were frequently determined through analysis of the vehicle identification number (VIN). Any biases introduced by the imputation and correction procedures are small compared to the standard errors involved.

CONTENTS

[Page numbers listed here omit the State prefix number
that appears as part of the number of each page]

INTRODUCTION

	Page
History of the Economic Censuses	III
Uses of the Economic Censuses	III
Authority and Scope of the Economic Censuses	III
Census of Transportation	III
Truck Inventory and Use Survey	III
Total Truck Inventory	IV
Comparability With Previous Surveys	IV
Explanation of Terms	IV
Sample Design	VI
Survey Method	VI
Reliability of Estimates	VI

TABLES

1. Trucks—Comparative Summary: 1963, 1967, 1972, and 1977	3
2. Trucks, Truck Miles, and Average Annual Miles: 1977	4
3. Trucks by Major Use: 1977	8
4. Trucks by Size: 1977	14
5. Trucks by Annual Miles: 1977	18
6. Trucks by Range of Operation: 1977	22
7. Trucks by Truck Type and Axle Arrangement: 1977	26

APPENDIXES

A. Survey Form	A-1
B. Estimating Unpublished Standard Errors	B-1
C. Estimating Standard Errors for Sums, Differences, Ratios, and Percents	C-1

Publication Program	Inside back cover
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Table 1. Trucks—Comparative Summary: 1963, 1967, 1972, and 1977

(PERCENT)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	1963	1967	1972	1977	VEHICULAR AND OPERATIONAL CHARACTERISTICS	1963	1967	1972	1977
TOTAL TRUCKS.....	100.0	100.0	100.0	100.0	YEAR MODEL				
MAJOR USE					1 TO 2 YEARS OLD.....	12.5	12.1	12.9	7.0
AGRICULTURE.....	59.1	51.7	52.1	41.1	3 TO 4 YEARS OLD.....	10.1	11.8	14.2	15.7
FORESTRY AND LUMBERING.....	-	-	-	-	OVER 4 YEARS OLD.....	77.4	76.1	72.9	77.3
MINING AND QUARRYING.....	-	-	-	-	VEHICLE ACQUISITION				
CONSTRUCTION.....	4.9	5.7	5.1	4.8	PURCHASED NEW.....	*	42.7	42.2	39.5
MANUFACTURING.....	1.8	-	.7	.5	PURCHASED USED.....	*	54.6	55.5	58.0
WHOLESALE AND RETAIL TRADE.....	7.6	6.8	6.5	6.3	LEASED FROM SOMEONE AND NOT REPORTED.....	*	2.7	2.3	2.5
FOR HIRE TRANSPORTATION.....	4.0	2.2	1.7	2.4	TRUCK FLEET SIZE				
UTILITIES AND SERVICES.....	4.4	3.8	5.9	5.2	1.....	81.2	52.1	54.5	63.4
PERSONAL TRANSPORTATION.....	16.7	25.3	26.4	37.7	2 TO 5.....	13.1	24.4	37.3	28.1
OTHER.....	1.5	4.5	1.5	1.7	6 TO 19.....	4.7	4.6	6.0	5.7
BODY TYPE					20 OR MORE.....	1.0	2.1	2.2	2.7
PICKUP, PANEL, MULTI-STOP, OR WALK-IN ¹	65.7	72.2	67.9	79.2	NOT REPORTED.....	-	16.8	-	-
PLATFORM AND CATTLERACK.....	26.1	18.3	23.6	14.3	TRUCK TYPE ⁴				
VAN ²	3.3	1.8	1.5	2.5	SINGLE-UNIT TRUCKS.....	*	90.6	97.9	97.0
UTILITY.....	-	-	-	-	2 AXLES.....	*	77.5	95.5	95.0
POLE OR LOGGING.....	-	-	-	-	3 AXLES.....	*	13.1	2.4	2.0
DUMP.....	1.2	1.7	1.4	1.0	TRUCK-TRACTOR COMBINATIONS.....	*	9.4	2.1	2.8
TANK FOR LIQUIDS OR DRY BULK.....	3.1	2.0	2.1	1.6	3 AXLES.....	*	1.0	.2	.1
OTHER.....	.6	4.0	3.3	1.0	4 AXLES.....	*	3.4	.5	.6
VEHICLE SIZE					5 AXLES OR MORE.....	*	5.0	1.4	2.1
LIGHT.....	70.2	77.1	70.5	82.2	RANGE OF OPERATION ³				
MEDIUM.....	9.5	14.0	23.1	8.8	LOCAL.....	68.6	80.2	79.7	80.3
LIGHT-HEAVY.....	17.1	5.0	2.8	4.1	SHORT RANGE (200 MILES OR LESS).....	9.4	13.2	7.6	7.9
HEAVY-HEAVY.....	3.2	3.9	3.6	4.9	LONG RANGE (MORE THAN 200 MILES).....	-	3.5	2.1	2.7
ANNUAL MILES ²					OFF-THE-ROAD AND NOT REPORTED.....	22.0	3.1	10.6	9.1
LESS THAN 5,000.....	31.7	23.3	33.5	35.3	FUEL TYPE ⁴				
5,000 TO 9,999.....	20.3	20.9	33.0	25.6	GASOLINE.....	98.2	92.2	90.3	96.6
10,000 TO 19,999.....	17.0	23.3	26.9	-	DIESEL AND LPG.....	.5	5.4	2.1	3.3
20,000 TO 29,999.....	3.8	4.9	5.3	6.6	NOT REPORTED.....	1.3	2.4	7.7	-
30,000 MILES OR MORE.....	4.5	3.9	4.6	5.6					

NOTE: PERCENTS MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING.

* NOT COLLECTED. - ESTIMATE IS LESS THAN 0.1 PERCENT.

¹VANS SIMILAR TO PANEL TRUCKS ARE INCLUDED IN PICKUP, PANEL, MULTI-STOP, OR WALK-IN.²FOR 1967, 1972, AND 1977 SURVEYS, ANNUAL MILES WERE IMPUTED IF NOT REPORTED.³FOR 1967 SURVEY, DATA WERE PRESENTED FOR "LESS THAN 6,000 MILES" (50.5 PERCENT) AND "6,000 TO 9,999 MILES" (19.8 PERCENT).⁴FOR 1967, DATA DO NOT INCLUDE PANELS AND PICKUPS.

Table 2. Trucks, Truck Miles, and Average Annual Miles: 1977

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCKS AND TRUCK MILES ¹						TRUCKS AND TRUCK MILES, EXCLUDING PICKUPS, PANELS, AND WALK-INS ¹					
	TRUCKS (THOUSANDS)	STANDARD ERROR (THOU- SANDS)	TRUCK MILES (MIL- LIONS)	STANDARD ERROR (MIL- LIONS)	AVER- AGE MILES PER TRUCK (THOU- SANDS)	STAN- DARD ERROR (THOU- SANDS)	TRUCKS (THOU- SANDS)	STAN- DARD ERROR (THOU- SANDS)	TRUCK MILES (MIL- LIONS)	STAN- DARD ERROR (MIL- LIONS)	AVER- AGE MILES PER TRUCK (THOU- SANDS)	STAN- DARD ERROR (THOU- SANDS)
TOTAL TRUCKS	182.6	-	1,947.0	55.5	10.7	.3	37.9	1.1	599.6	27.2	15.8	.7
MAJOR USE												
AGRICULTURE	75.1	3.1	557.2	38.3	7.4	.4	22.6	.9	123.5	11.5	5.5	.5
FORESTRY AND LUMBERING . . . . .	.4	.3	1.9	1.0	4.5	3.3	.1	1.8	1.0	12.6	4.8	
MINING AND QUARRYING . . . . .	.2	.1	2.5	1.5	14.9	6.5	.2	1	2.5	1.5	14.9	6.5
CONSTRUCTION	8.7	1.3	130.4	26.2	15.0	1.8	3.1	.6	40.9	8.9	13.1	1.7
MANUFACTURING . . . . .	.9	.3	18.0	5.3	20.5	6.3	.6	.1	16.3	5.0	27.6	6.2
WHOLESALE TRADE	2.8	.7	69.3	16.7	24.8	4.0	1.0	.2	35.2	7.8	35.7	5.4
RETAIL TRADE	8.8	1.3	125.9	21.0	14.1	1.6	3.2	.4	56.3	8.1	17.5	2.0
FOR HIRE TRANSPORTATION	3.7	.3	294.4	22.7	80.5	-	3.6	.3	292.6	22.7	81.2	-
UTILITIES	1.6	.6	16.4	9.0	10.1	3.9	1.1	.4	6.1	2.2	5.7	.9
SERVICES	7.9	1.4	87.9	21.5	11.2	1.8	1.3	.3	7.5	1.7	5.6	.7
DAILY RENTAL . . . . .	.7	.3	14.0	5.1	21.4	2.6	.4	.1	9.7	2.8	26.5	2.4
PERSONAL TRANSPORTATION	68.8	3.2	615.6	41.3	8.9	.4	.1	-	-	-	.3	.1
OTHER	2.1	.7	15.5	5.8	7.4	2.3	.3	.1	7.2	3.7	23.3	9.7
NOT IN USE	1.1	.4	-	-	-	-	.4	.1	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
BODY TYPE												
PICKUP	125.1	2.4	1,118.0	48.6	8.9	.4	-	-	-	-	-	-
PANEL OR VAN	18.4	2.1	218.6	32.7	11.9	1.1	-	-	-	-	-	-
MULTISTOP OR WALK-IN	1.1	.5	10.8	5.1	9.5	3.0	-	-	-	-	-	-
PLATFORM WITH ADDED DEVICES	3.1	.5	19.9	4.0	6.4	1.2	3.1	.5	19.9	4.0	6.4	1.2
LOW BOY OR DEPRESSED CENTER . . . . .	.5	.3	9.2	3.9	17.0	9.5	.5	.3	9.2	3.9	17.0	9.5
OTHER PLATFORM	15.3	.8	89.8	10.3	5.9	.6	15.3	.8	89.8	10.3	5.9	.6
CATTLE RACK	7.2	.5	65.9	10.4	9.2	1.3	7.2	.5	65.9	10.4	9.2	1.3
INSULATED NONREFRIGERATED VAN . . . . .	.5	.1	50.7	8.7	94.8	-	.5	.1	50.7	8.7	94.8	-
INSULATED REFRIGERATED VAN	1.4	.2	117.5	15.1	87.0	-	1.4	.2	117.5	15.1	87.0	-
FURNITURE VAN . . . . .	.5	.3	4.9	2.8	10.7	2.9	.5	.3	4.9	2.8	10.7	2.9
OPEN TOP VAN . . . . .	.2	.1	11.2	4.9	66.6	11.0	.2	.1	11.2	4.9	66.6	11.0
OTHER ENCLOSED VANS	2.0	.2	120.7	14.5	59.5	2.5	2.0	.2	120.7	14.5	59.5	2.5
BEVERAGE . . . . .	.2	.1	4.0	1.6	17.9	3.1	.2	.1	4.0	1.6	17.9	3.1
UTILITY . . . . .	.5	.3	8.2	6.3	15.9	2.9	.5	.3	8.2	6.3	15.9	2.9
WINCH OR CRANE . . . . .	.5	.3	5.0	2.5	9.2	3.0	.5	.3	5.0	2.5	9.2	3.0
WRECKER . . . . .	.2	.1	.4	.2	2.4	.7	.2	.1	.4	.2	2.4	.7
POLE OR LOGGING	-	-	-	-	-	-	-	-	-	-	-	-
AUTO TRANSPORT	-	-	.3	.3	10.0	-	-	-	-	.3	10.0	-
BOAT TRANSPORT	-	-	-	-	-	-	-	-	-	-	-	-
MOBILE HOME PULLER . . . . .	.2	.1	4.9	2.8	28.8	11.9	.2	.1	4.9	2.8	28.8	11.9
GARBAGE HAULER												
FRONT LOADER	-	-	.1	.1	3.0	-	-	-	.1	.1	3.0	-
REAR LOADER . . . . .	.2	.1	1.6	.6	6.9	1.2	.2	.1	1.6	.6	6.9	1.2
ROLL OFF	-	-	-	-	-	-	-	-	-	-	-	-
NOT SPECIFIED	-	-	-	-	-	-	-	-	-	-	-	-
DUMP	1.8	.2	23.6	4.5	12.9	1.9	1.8	.2	23.6	4.5	12.9	1.9
TANK FOR LIQUIDS	2.6	.4	50.1	8.4	19.3	3.1	2.6	.4	50.1	8.4	19.3	3.1
TANK FOR DRY BULK . . . . .	.3	.1	7.4	3.6	26.3	10.0	.3	.1	7.4	3.6	26.3	10.0
CONCRETE MIXER ¹												
FRONT DISCHARGER	-	-	.1	.1	4.5	-	-	-	.1	.1	4.5	-
REAR DISCHARGER . . . . .	.4	.1	3.6	1.0	8.6	1.2	.4	.1	3.6	1.0	8.6	1.2
NOT SPECIFIED . . . . .	.1	.1	.4	.3	4.3	1.9	.1	.1	.4	.3	4.3	1.9
OTHER . . . . .	.1	.1	.3	.2	2.5	.7	.1	.1	.3	.2	2.5	.7
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
ANNUAL MILES												
LESS THAN 5,000	64.4	3.0	129.3	8.2	2.0	-	20.9	.9	35.8	2.1	1.7	-
5,000 TO 9,999	46.7	2.9	319.7	20.8	6.8	-	6.2	.7	40.3	4.6	6.5	.1
10,000 TO 19,999	49.2	3.0	622.7	39.1	12.7	.2	3.7	.4	48.3	5.8	13.0	.2
20,000 TO 29,999	12.0	1.7	267.9	37.0	22.3	.4	2.2	.4	49.8	8.1	22.9	-
30,000 TO 49,999	6.5	1.2	225.7	41.9	34.8	.8	1.2	.2	46.1	6.8	37.2	.9
50,000 TO 74,999	1.1	.2	61.4	9.7	57.5	1.0	1.1	.2	61.4	9.7	57.5	1.0
75,000 OR MORE	2.7	.3	320.3	25.4	119.8	-	2.6	.3	317.7	25.3	120.1	-
RANGE OF OPERATION												
LOCAL	146.6	2.4	1,203.6	44.3	8.2	.3	25.0	1.0	146.7	10.8	5.9	.4
SHORT RANGE (200 MILES OR LESS)	14.5	1.7	310.1	39.6	21.4	1.7	3.7	.4	118.2	14.4	32.3	2.9
LONG RANGE (MORE THAN 200 MILES)	4.9	.7	342.3	27.2	70.2	6.5	3.4	.3	313.0	23.6	91.9	-
OFF-THE-ROAD	16.2	1.7	87.6	16.5	5.4	.8	5.5	.5	18.4	2.9	3.3	.5
NOT REPORTED . . . . .	.4	.1	3.3	1.8	8.5	4.0	.3	.1	3.3	1.8	9.9	4.6
BASE OF OPERATION												
PERCENTAGE OF MILES TRAVELED IN BASE-OF-OPERATION STATE ¹												
LESS THAN 25 PERCENT	3.6	.6	260.5	22.7	72.3	8.2	2.7	.4	242.7	20.0	90.6	5.6
25 TO 49 PERCENT	3.0	.8	103.8	22.0	34.3	5.8	1.0	.2	64.7	12.7	65.7	7.1
50 TO 74 PERCENT	10.7	1.5	206.0	30.0	19.3	1.8	2.3	.2	79.8	13.0	35.0	4.3
75 TO 100 PERCENT	164.9	1.8	1,376.6	47.3	8.3	.3	31.7	1.1	212.3	13.3	6.7	.4
NOT REPORTED . . . . .	.4	.1	.1	.1	.2	.2	.3	.1	.1	.1	.2	.2
VEHICLE SIZE												
LIGHT	150.1	.9	1,344.5	49.1	9.0	.3	6.9	.9	22.5	5.9	3.3	.6
MEDIUM	16.1	1.0	110.2	14.7	6.9	.7	14.6	.8	84.8	9.0	5.8	.5
LIGHT-HEAVY	7.5	.4	61.9	7.2	8.2	.9	7.5	.4	61.9	7.2	8.3	.9
HEAVY-HEAVY	8.9	.4	430.4	26.0	48.4	1.8	8.9	.4	430.4	26.0	48.4	1.8

SEE FOOTNOTES AT END OF TABLE.

Table 2. Trucks, Truck Miles, and Average Annual Miles: 1977—Con.

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCKS AND TRUCK MILES ¹						TRUCKS AND TRUCK MILES, EXCLUDING PICKUPS, PANELS, AND WALK-INS ¹					
	TRUCKS (THOU- SANDS)	STANDARD ERROR (THOU- SANDS)	TRUCK MILES (MIL- LIONS)	STANDARD ERROR (MIL- LIONS)	AVER- AGE MILES PER TRUCK (THOU- SANDS)	STAN- DARD ERROR (THOU- SANDS)	TRUCKS (THOU- SANDS)	STAN- DARD ERROR (THOU- SANDS)	TRUCK MILES (MIL- LIONS)	STAN- DARD ERROR (MIL- LIONS)	AVER- AGE MILES PER TRUCK (THOU- SANDS)	STAN- DARD ERROR (THOU- SANDS)
GROSS WEIGHT												
6,000 OR LESS	128.3	2.3	1,137.1	49.3	8.9	.4	2.9	.7	10.5	5.0	3.6	1.2
6,001 TO 10,000	21.9	2.1	207.5	29.2	9.5	.8	4.0	.5	12.1	3.1	3.0	.6
10,001 TO 14,000	5.2	.8	39.0	9.9	7.5	1.2	4.2	.6	23.7	6.7	5.7	1.3
14,001 TO 16,000	4.2	.4	21.8	3.8	5.2	.8	4.1	.4	21.2	3.7	5.1	.9
16,001 TO 19,500	6.7	.6	49.4	10.4	7.4	1.2	6.3	.5	39.9	4.8	6.3	.6
19,501 TO 26,000	7.5	.4	61.9	7.2	8.2	.9	7.5	.4	61.9	7.2	8.3	.9
26,001 TO 33,000	2.2	.2	25.2	5.0	11.6	1.8	2.2	.2	25.2	5.0	11.6	1.9
33,001 TO 40,000	1.3	.2	19.7	4.4	14.9	2.6	1.3	.2	19.7	4.4	14.9	2.6
40,001 TO 50,000	1.4	.2	23.4	4.4	17.3	2.2	1.4	.2	23.4	4.4	17.3	2.2
50,001 TO 60,000 . . . . .	.5	.1	23.2	7.1	48.6	9.2	.5	.1	23.2	7.1	48.6	9.2
60,001 TO 80,000	3.5	.3	333.3	24.5	95.5	-	3.5	.3	333.3	24.5	95.5	-
80,001 TO 100,000 . . . . .	.1	-	5.5	4.0	65.3	28.9	.1	-	5.5	4.0	65.3	28.9
100,001 TO 130,000	-	-	-	-	-	-	-	-	-	-	-	-
130,001 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
YEAR MODEL												
1978 . . . . .	.1	-	4.6	3.3	81.0	13.0	.1	-	4.6	3.3	81.0	13.0
1977	12.7	1.7	266.3	30.9	21.0	1.5	1.5	.2	106.1	11.9	72.5	-
1976	17.7	2.0	309.3	35.7	17.5	1.2	1.5	.2	81.9	11.1	54.9	1.5
1975	10.9	1.6	207.2	30.1	18.9	1.7	2.3	.5	76.5	13.0	33.8	4.1
1974	17.7	2.0	251.5	29.0	14.2	1.0	2.4	.2	74.2	12.6	30.7	4.1
1973	16.3	1.9	226.1	27.7	13.9	1.0	2.1	.2	66.6	11.7	31.1	4.3
1972	10.6	1.6	123.9	20.3	11.7	1.2	1.4	.2	31.1	7.8	25.1	4.8
1971	7.5	1.3	79.2	16.0	10.5	1.7	1.5	.3	32.7	6.0	22.5	5.7
1970	10.3	1.5	94.1	16.3	9.2	1.0	2.2	.5	27.1	5.6	12.5	2.0
1969	6.0	1.1	53.9	9.5	9.0	.9	2.2	.4	27.6	5.2	12.4	1.7
1968	8.4	1.4	67.9	14.9	8.1	1.1	1.4	.2	10.4	2.4	7.4	1.4
1967	9.6	1.5	64.3	12.2	6.7	.8	2.0	.5	16.9	4.4	8.4	2.1
PRE-1967	54.9	2.8	198.5	20.3	3.6	.3	17.5	.8	43.7	3.5	2.5	.2
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
VEHICLE ACQUISITION												
PURCHASED NEW	72.1	3.2	1,005.3	54.5	13.9	.5	14.2	.7	309.1	22.3	21.8	1.4
PURCHASED USED	105.9	3.2	764.2	41.6	7.2	.3	22.1	1.0	144.0	13.2	6.5	.6
LEASED FROM SOMEONE ELSE	1.6	.3	154.0	19.1	99.1	3.4	1.2	.2	140.7	14.5	113.6	-
LEASED TO SOMEONE ELSE	2.5	.5	86.0	14.6	34.4	5.1	1.6	.2	72.4	12.3	44.3	5.1
NOT REPORTED	3.0	.8	23.5	7.8	7.7	1.8	.4	.1	5.9	3.5	14.9	7.9
LEASE CHARACTERISTICS ²												
LEASED WITHOUT DRIVER	1.8	.5	48.6	15.1	26.3	4.3	1.0	.2	26.6	6.2	27.8	4.5
LEASED WITH DRIVER	1.9	.4	168.1	16.9	88.9	8.2	1.6	.2	163.2	16.2	101.8	-
LESSEE ³												
PRIVATE	3.8	.6	218.4	22.6	57.1	5.2	2.6	.3	191.5	17.2	72.4	-
GOVERNMENT	-	-	-	-	-	-	-	-	-	-	-	-
LENGTH OF LEASE ⁴												
LESS THAN 30 DAYS	1.2	.4	31.0	8.8	26.5	4.9	.6	.1	21.7	5.9	36.8	6.3
30 DAYS TO 1 YEAR	1.3	.2	143.3	15.1	108.3	-	1.3	.2	145.3	15.1	108.3	-
1 TO 3 YEARS . . . . .	.8	.4	27.8	13.9	34.7	8.0	.2	.1	11.0	4.5	49.0	10.5
MORE THAN 3 YEARS . . . . .	.5	.1	13.2	4.2	27.7	5.7	.5	.1	12.3	4.1	27.2	6.1
PROVISIONS OF LEASE ⁵												
FINANCING . . . . .	.6	.3	13.4	5.4	22.4	4.0	.3	.1	8.0	3.0	28.5	6.0
MAINTENANCE	1.1	.4	22.0	7.4	20.4	2.2	.5	.1	12.8	3.4	25.3	3.4
PROCUREMENT AND SALE	-	-	.2	.2	7.0	-	-	-	.2	.2	7.0	-
OPERATOR CLASSIFICATION												
NOT FOR HIRE ⁶												
PRIVATE OWNER OR INDIVIDUAL	174.8	.9	1,575.2	51.5	9.0	.3	32.6	1.1	251.1	16.3	7.7	.5
FOR HIRE INTERSTATE ⁷												
EXEMPT CARRIER	1.4	.4	70.3	14.0	49.5	12.0	.8	.2	63.4	13.1	75.1	8.0
CONTRACT CARRIER . . . . .	.6	.1	50.3	11.0	77.6	6.4	.6	.1	50.3	11.0	77.6	6.4
COMMON CARRIER	2.0	.2	202.7	17.8	101.5	-	1.9	.2	201.0	17.8	103.5	-
FOR HIRE INTRASTATE ⁷												
LOCAL CARGATE	2.5	.6	33.4	7.6	13.3	2.2	1.3	.2	23.6	5.5	17.9	3.3
FOR HIRE DAILY RENTAL . . . . .	.7	.3	14.0	5.1	21.4	2.6	.4	.1	9.7	2.8	26.5	2.4
NOT REPORTED . . . . .	.5	.3	1.1	.8	2.1	.9	.2	.1	.5	.5	2.8	2.5
PRODUCTS CARRIED												
FARM PRODUCTS	49.5	2.7	367.4	32.0	7.4	.5	19.1	.7	121.4	12.3	6.4	.6
LIVE ANIMALS	12.0	1.6	133.5	20.1	11.2	1.1	3.4	.4	49.6	9.9	14.8	2.6
MINING PRODUCTS . . . . .	.1	-	1.1	.9	19.0	9.0	.1	-	1.1	.9	19.0	9.0
LOGS AND OTHER FOREST PRODUCTS . . . . .	.7	.4	4.5	3.0	6.8	3.0	.4	-	.8	.7	14.2	7.5
PROCESSED FOODS	4.1	.8	179.6	19.5	43.5	5.7	2.0	.2	151.7	15.0	74.9	-
TEXTILE MILL PRODUCTS . . . . .	.3	.3	11.1	8.2	35.2	11.3	-	-	3.9	3.9	140.2	-
BUILDING MATERIALS	9.6	1.4	95.2	16.0	9.9	1.0	4.1	.6	48.4	9.2	11.9	1.4
HOUSEHOLD GOODS . . . . .	.8	.3	16.2	6.2	19.7	1.7	.5	.1	10.6	3.0	21.0	3.4
FURNITURE OR HARDWARE . . . . .	.4	.3	4.6	2.9	12.4	4.6	.4	.3	4.6	2.9	12.4	4.6
PAPER PRODUCTS . . . . .	.6	.4	15.9	12.3	27.6	8.5	-	-	-	-	-	-
CHEMICALS	1.3	.5	21.4	11.7	17.0	4.6	.3	.1	3.2	1.5	9.6	3.7
PETROLEUM	3.6	.7	56.0	10.6	15.7	2.6	2.1	.4	42.2	8.0	20.2	3.8
PRIMARY METAL PRODUCTS	-	-	-	-	-	-	-	-	-	-	-	-
FABRICATED METAL PRODUCTS . . . . .	.9	.5	4.3	2.7	4.7	1.7	.1	-	.5	.3	8.0	.7
MACHINERY, EXCEPT ELECTRICAL	1.4	.4	23.9	5.9	17.2	5.5	1.1	.3	20.8	5.4	19.4	5.8
ELECTRICAL MACHINERY	1.8	.7	16.3	6.8	9.1	1.5	.1	-	.7	.5	13.0	3.5
TRANSPORTATION EQUIPMENT	2.2	.7	33.8	12.6	15.7	3.0	.4	.1	7.4	3.1	18.8	6.1
SCRAP, REFUSE, OR GARBAGE	4.5	1.0	17.9	6.3	3.9	1.1	.7	.1	4.5	1.8	6.4	2.3
MIXED CARGOES	7.3	1.3	176.1	23.6	24.2	3.2	1.4	.2	112.6	15.0	80.0	-
CRAFTSMAN'S EQUIPMENT	7.7	1.4	123.8	28.3	16.0	2.1	.7	.4	4.4	2.2	5.9	1.0
SPECIAL EQUIPMENT	1.5	.5	9.5	3.8	6.3	1.6	.6	.1	4.6	1.6	7.4	2.1
PERSONAL TRANSPORTATION	69.8	3.2	611.5	40.7	8.8	4.4	.1	.1	.1	.1	.7	.3
OTHER	1.6	.6	23.2	10.8	14.5	4.2	.4	.1	6.4	3.4	16.2	7.6
NOT REPORTED	1.0	.4	-	-	-	-	.4	.1	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

Table 2. Trucks, Truck Miles, and Average Annual Miles: 1977—Con.

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCKS AND TRUCK MILES ¹						TRUCKS AND TRUCK MILES, EXCLUDING PICKUPS, PANELS, AND WALK-INS ¹					
	STANDARD ERROR (THOUSANDS)	TRUCK MILES (MILLIONS)	STANDARD ERROR (MILLIONS)	AVERAGE MILES PER TRUCK (THOUSANDS)	STANDARD ERROR (THOUSANDS)	STANDARD ERROR (THOUSANDS)	TRUCK MILES (MILLIONS)	STANDARD ERROR (MILLIONS)	STANDARD ERROR (THOUSANDS)	AVERAGE MILES PER TRUCK (THOUSANDS)	STANDARD ERROR (MILLIONS)	STANDARD ERROR (THOUSANDS)
HAZARDOUS MATERIALS CARRIED												
HAZARDOUS MATERIALS CARRIED	2.3	.2	132.2	15.4	56.6	2.9	2.3	.2	132.1	15.4	57.3	2.9
LESS THAN 25 PERCENT OF TIME	1.3	.2	110.1	14.6	86.9	-	1.3	.2	110.1	14.6	86.9	-
25 TO 49 PERCENT OF TIME	-	-	2.2	.2	8.0	-	-	-	2.2	.2	8.0	-
50 TO 74 PERCENT OF TIME	-	-	2.1	2.1	74.7	-	-	-	2.1	2.1	74.7	-
75 TO 100 PERCENT OF TIME	.9	.2	19.2	4.9	22.0	4.2	.9	.2	19.2	4.9	22.0	4.2
NO PERCENT REPORTED	.1	.1	6	.4	4.2	1.8	.1	.1	5	.4	4.8	2.2
NO HAZARDOUS MATERIAL CARRIED	155.9	2.2	1,634.7	55.4	10.5	.3	30.4	1.0	425.7	23.5	14.0	.7
NOT REPORTED	24.3	2.2	180.1	23.5	7.4	.7	5.2	.5	41.7	7.8	8.0	1.5
TRUCK FLEET SIZE ³												
1	115.8	3.0	1,024.0	47.8	8.8	.4	11.5	.7	93.2	10.4	8.1	.8
2 TO 5	51.3	2.8	474.1	37.8	9.2	.5	18.1	.9	155.0	13.9	8.6	.7
6 TO 19	10.4	1.4	173.4	25.6	16.6	1.9	4.9	.6	103.7	14.8	21.3	2.6
20 OR MORE	5.0	.8	275.5	24.5	55.2	5.7	3.5	.4	247.6	19.8	70.8	4.6
MILES PER GALLON												
LESS THAN 5	13.8	.9	447.6	27.8	32.5	2.0	11.9	.6	428.0	25.5	35.9	1.9
5 TO 6.9	8.4	.9	91.4	14.6	10.8	1.3	5.9	.5	64.5	8.4	10.8	1.3
7 TO 8.9	18.6	1.7	128.7	18.0	6.9	.6	9.2	.7	57.3	8.8	6.3	.7
9 TO 11.9	45.3	2.9	454.8	41.5	10.0	.6	6.1	.7	22.5	5.2	3.7	.6
12 TO 14.9	39.4	2.8	361.2	35.2	9.2	.6	1.9	.4	5.0	1.8	2.6	.6
15 TO 19.9	36.0	2.8	273.3	30.4	7.6	.6	.4	.1	.3	.1	.8	.2
20 OR MORE	7.7	1.4	80.7	21.7	10.5	2.0	.2	.1	.2	.1	1.3	.7
NOT REPORTED	13.4	1.7	109.3	18.9	8.1	1.0	2.4	.2	21.8	4.7	9.2	1.8
EQUIPMENT TYPE												
TRANSMISSION:												
MANUAL	114.5	3.2	1,180.1	49.8	10.3	.4	35.7	1.0	541.2	25.5	15.2	.7
AUTOMATIC	61.2	3.2	678.7	48.3	11.1	.5	1.0	.3	20.0	6.9	19.6	1.3
SEMIAUTOMATIC	.2	.1	2.1	1.4	10.9	6.1	.2	.1	2.1	1.4	10.9	6.1
NOT REPORTED	6.7	1.2	86.1	15.7	12.8	1.7	1.0	.2	36.2	9.0	34.8	6.7
BRAKING SYSTEM:												
HYDRAULIC ⁴	148.4	2.4	1,298.9	51.0	8.8	.3	28.3	1.1	184.8	12.5	6.5	.4
AIR	8.7	.8	386.6	25.7	44.4	3.2	7.3	.4	376.1	25.0	51.8	1.9
OTHER	17.0	2.0	152.7	24.2	9.0	.9	1.4	.2	4.9	1.1	3.5	.6
NOT REPORTED	8.4	1.4	108.8	21.0	12.9	1.8	1.0	.2	33.7	8.7	35.2	7.0
ANTI-WHEEL-LOCK DEVICE ⁵	12.1	1.7	265.4	27.9	21.9	1.8	2.0	.2	142.3	14.7	70.2	-
POWER STEERING ²	74.5	3.2	966.5	52.6	13.0	.5	11.3	.6	209.0	13.9	18.5	.9
AIR CONDITIONING ²	33.4	2.6	702.9	48.9	21.0	1.1	3.4	.3	307.6	23.2	91.1	-
FUEL CONSERVATION EQUIPMENT ²												
RADIAL TIRES	34.3	2.7	593.6	46.5	17.3	.9	3.6	.3	196.2	19.1	54.9	2.8
DRAG REDUCTION DEVICES	.3	.1	27.3	8.8	80.8	12.7	.3	.1	27.3	8.8	80.8	12.7
VARIABLE SPEED FAN	18.3	2.1	276.1	36.1	15.1	1.3	1.5	.3	61.6	13.9	41.1	7.1
FUEL EFFICIENT ENGINE	9.3	1.5	141.3	24.3	15.2	1.7	1.5	.2	45.9	9.8	29.7	5.0
AXLE OR DRIVE RATIO CHANGE	20.7	1.5	195.4	22.6	9.5	.8	13.5	.6	120.9	11.5	8.9	.8
NOT REPORTED	115.1	3.1	1,037.9	47.1	9.0	.3	20.4	1.0	275.5	18.8	13.5	.9
MAINTENANCE ²												
MAINTENANCE PERFORMED ON--												
ENGINE	26.4	2.3	358.3	34.2	13.6	1.0	6.9	.7	164.5	18.4	23.9	2.7
TRANSMISSION	15.8	1.9	211.5	26.4	13.4	1.3	3.0	.4	89.9	13.4	30.4	4.0
BRAKING SYSTEM	21.3	2.1	280.9	35.1	13.2	1.2	4.3	.4	83.2	12.2	19.5	2.7
REAR AXLE AND DIFFERENTIAL	8.2	1.3	150.2	25.9	18.3	2.4	2.1	.2	67.2	11.6	32.2	4.3
NONE OF THE ABOVE	112.7	3.2	1,160.7	51.2	10.3	.4	23.1	.9	336.2	19.9	14.5	.8
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
MAINTENANCE PERFORMED BY ³ --												
SELF OR OWN REPAIR SHOP	23.2	2.2	231.5	25.5	10.0	.9	5.2	.5	102.6	13.8	19.7	2.5
TRUCK DEALER	10.9	1.5	196.3	29.5	18.0	1.7	2.4	.4	67.0	11.4	27.6	4.4
FACTORY BRANCH	.5	.3	10.7	6.2	23.3	2.5	.2	.1	4.9	2.4	29.1	8.4
LEASING COMPANY	1.3	.6	15.5	6.8	11.5	4.5	.2	.1	8.2	5.5	41.5	23.2
INDEPENDENT GARAGE	22.0	2.1	251.9	31.0	11.5	1.0	4.7	.6	67.8	10.7	14.4	2.3
OTHER	1.7	.6	11.5	5.1	6.9	2.1	.2	.1	3.2	2.8	16.2	12.7
NOT REPORTED	126.4	3.0	1,277.9	51.6	10.1	.3	25.5	.9	360.4	20.9	14.1	.8
ENGINE TYPE AND SIZE												
ENGINE:												
GASOLINE	176.5	.5	1,545.9	50.1	8.8	.3	32.1	1.1	203.8	12.6	6.3	.3
DIESEL	5.7	.5	397.7	26.6	69.5	2.8	5.4	.4	392.4	26.2	72.6	.9
LPG OR OTHER	.4	.1	3.4	1.2	8.6	2.0	.4	.1	3.4	1.2	8.6	2.0
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
CYLINDERS:												
4	7.7	1.4	75.3	19.0	9.8	1.7	.5	.3	3.5	2.4	6.9	4.4
6	54.5	2.9	546.0	37.6	10.0	.6	13.3	.6	276.8	23.1	20.8	1.6
8	119.9	3.1	1,323.7	53.5	11.0	.4	24.0	1.0	317.4	17.9	13.2	.7
OTHER	-	-	-	-	-	-	-	-	1.8	1.8	65.7	-
NOT REPORTED	.4	.3	.1	.1	.3	-	.1	-	-	-	-	-
CUBIC INCH DISPLACEMENT:												
GASOLINE ENGINES	4.1	1.1	46.7	16.5	11.3	2.7	.1	-	-	.4	.1	-
LESS THAN 200	31.3	2.4	188.7	25.2	6.0	.6	7.2	.7	16.2	2.1	2.3	.1
200 TO 299	23.0	2.1	196.9	24.0	8.6	.7	7.0	.6	48.7	6.0	6.9	.7
300 TO 349	60.0	3.1	628.5	43.6	10.5	.5	8.6	.7	83.6	9.2	9.7	.7
350 TO 399	13.6	1.8	203.1	32.2	15.0	1.3	1.8	.3	27.6	6.3	15.7	1.9
400 OR MORE	44.6	2.8	282.0	28.7	6.3	.5	7.5	.5	27.8	3.5	3.7	.4
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

Table 2. Trucks, Truck Miles, and Average Annual Miles: 1977—Con.

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCKS AND TRUCK MILES ¹						TRUCKS AND TRUCK MILES, EXCLUDING PICKUPS, PANELS, AND WALK-INS ¹					
	TRUCKS			AVERAGE MILES PER TRUCK			TRUCKS			AVERAGE MILES PER TRUCK		
	STANDARD ERROR (THOUSANDS)	STANDARD MILES (MILLIONS)	STANDARD ERROR (MILLIONS)	STANDARD ERROR (THOUSANDS)	STANDARD MILES (MILLIONS)	STANDARD ERROR (MILLIONS)	STANDARD ERROR (THOUSANDS)	STANDARD MILES (MILLIONS)	STANDARD ERROR (MILLIONS)	STANDARD ERROR (THOUSANDS)	STANDARD MILES (MILLIONS)	STANDARD ERROR (MILLIONS)
ENGINE TYPE AND SIZE--CON. CUBIC INCH DISPLACEMENT--CON. DIESEL ENGINES												
LESS THAN 400.	.2	.1	8.2	4.4	36.3	14.8	.2	.1	7.2	4.3	36.6	16.8
400 TO 599.	.9	.3	47.9	11.9	51.2	13.1	.6	.1	43.6	11.1	67.3	10.4
600 TO 799.	.6	.1	32.6	9.0	50.4	9.5	.6	.1	32.6	9.0	50.4	9.5
800 OR MORE.	.6	.1	46.0	10.8	74.3	8.0	.6	.1	46.0	10.8	74.3	8.0
NOT REPORTED.	3.3	.3	263.0	20.2	79.9	-	3.3	.3	263.0	20.2	79.9	-
OTHER ENGINES												
LESS THAN 400.	.3	.1	2.9	1.1	9.5	2.3	.3	.1	2.9	1.1	9.5	2.3
400 OR MORE.	.1	-	.4	.3	6.5	3.6	.1	-	.4	.3	6.5	3.6
NOT REPORTED.	-	-	.1	.1	2.5	-	-	-	.1	.1	2.5	-
TRUCK TYPE AND AXLE ARRANGEMENT												
SINGLE-UNIT TRUCKS:												
2 AXLES.	174.1	.5	1,519.4	50.0	8.7	.3	29.5	1.1	172.0	11.9	5.8	.3
3 AXLES.	3.1	.3	38.4	5.4	12.5	1.4	3.1	.3	38.4	5.4	12.5	1.4
OTHER.	.1	-	.5	.3	5.5	1.0	.1	-	.5	.3	5.5	1.0
TRUCK-TRACTOR COMBINATIONS:												
SINGLE TRAILERS												
3 AXLES.	.2	.1	3.2	1.8	14.1	6.5	.2	.1	3.2	1.8	14.1	6.5
4 AXLES.	1.2	.3	30.1	7.2	25.9	6.0	1.2	.3	30.1	7.2	25.9	6.0
5 AXLES.	3.4	.3	321.5	23.9	93.6	-	3.4	.3	321.5	23.9	93.6	-
6 AXLES.	.1	.1	5.9	3.1	52.7	8.6	.1	.1	5.9	3.1	52.7	8.6
OTHER.	.1	-	2.9	1.9	34.0	12.1	.1	-	2.9	1.9	34.0	12.1
DOUBLE TRAILERS												
5 AXLES.	-	-	4.8	4.7	171.9	-	-	-	4.8	4.7	171.9	-
6 AXLES.	.1	.1	12.4	6.4	109.8	16.8	.1	.1	12.4	6.4	109.8	16.8
OTHER.	-	-	-	-	-	-	-	-	-	-	-	-
TRIPLE TRAILERS												
7 AXLES.	-	-	-	-	-	-	-	-	-	-	-	-
OTHER.	-	-	-	-	-	-	-	-	-	-	-	-
TRAILER NOT SPECIFIED.	.2	.1	7.9	4.2	46.9	16.2	.2	.1	7.9	4.2	46.9	16.2
POWERED AXLES:												
1	134.9	2.9	1,117.4	49.0	8.3	.3	31.8	1.1	221.1	14.4	7.0	.4
2	41.0	2.8	769.1	46.9	16.7	.9	6.0	.5	375.9	25.4	62.6	3.1
3	.1	.1	1.9	1.8	16.8	13.9	.1	.1	1.9	1.8	16.8	13.9
4	-	-	.1	.1	4.5	-	-	-	.1	.1	4.5	-
NOT REPORTED.	6.5	1.3	58.4	17.4	8.9	1.9	-	-	.5	.5	16.8	-
CAB TYPE ⁶												
CAB FORWARD OF ENGINE.	.9	.2	10.6	3.6	11.8	3.4	.9	.2	10.6	3.6	11.8	3.4
CAB OVER ENGINE.	4.5	.3	344.0	24.7	75.9	-	4.5	.3	344.0	24.7	75.9	-
SHORT HOOD CONVENTIONAL.	5.9	.4	48.7	5.9	6.3	.9	5.9	.4	48.7	5.9	8.3	.9
MEDIUM HOOD CONVENTIONAL.	15.4	.9	131.1	11.3	8.5	.7	15.4	.9	131.1	11.3	8.5	.7
LONG HOOD CONVENTIONAL.	11.0	.9	62.5	9.9	5.7	.8	11.0	.9	62.5	9.9	5.7	.8
OTHER.	.2	.1	2.4	1.3	14.2	5.3	.2	.1	2.4	1.3	14.2	5.3
NOT REPORTED.	.1	-	.3	.2	3.2	1.9	.1	-	.3	.2	3.2	1.9
CAB WITH SLEEPER UNIT.	3.3	.3	288.7	21.6	86.9	-	3.3	.3	288.7	21.6	86.9	-
PICKUPS, PANELS, VANS, MULTISTOPS, OR WALK-INS												
TOTAL.	144.7	1.1	1,347.4	49.7	9.3	.4	-	-	-	-	-	-
PICKUPS.	125.1	2.4	1,118.0	48.6	8.9	.4	-	-	-	-	-	-
PANELS OR VANS.	18.4	2.1	218.6	32.7	11.9	1.1	-	-	-	-	-	-
MULTISTOPS OR WALK-INS.	1.1	.5	10.8	5.1	9.5	3.0	-	-	-	-	-	-
DRIVING WHEELS:												
4-WHEEL DRIVE.	35.0	2.8	393.2	39.4	11.2	.7	-	-	-	-	-	-
2-WHEEL DRIVE.	90.9	3.2	801.2	47.0	8.8	.4	-	-	-	-	-	-
NOT REPORTED.	18.7	2.1	153.0	25.2	8.2	.9	-	-	-	-	-	-
AXLES ON VEHICLE:												
2.	114.9	2.7	1,075.1	49.5	9.4	.4	-	-	-	-	-	-
3.	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED.	29.8	2.6	272.3	33.9	9.1	.8	-	-	-	-	-	-
CAMPER BODY OR SPECIAL CAMPING EQUIPMENT:												
SLIDE-IN CAMPER.	5.2	1.2	46.2	13.6	8.9	1.6	-	-	-	-	-	-
PICKUP SHELL COVER.	17.1	2.1	208.6	29.8	12.2	.9	-	-	-	-	-	-
CAMPER BODY.	1.8	.7	15.6	8.6	8.6	3.3	-	-	-	-	-	-
NOT REPORTED.	120.5	2.6	1,077.1	50.1	8.9	.4	-	-	-	-	-	-

NOTE: DATA RELATE TO STATE OF REGISTRATION, WHICH IN MOST CASES IS BASE OF OPERATION; HOWEVER, SOME TRUCKS REGISTERED IN A GIVEN STATE ARE ACTUALLY BASED IN ANOTHER STATE BECAUSE THEY OPERATE INTERSTATE OR THEIR OPERATORS HAVE MOVED TO ANOTHER STATE. DETAILED FIGURES MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING. STANDARD ERROR IS AN ACTUAL NUMBER; FOR DISCUSSION OF PROPER USE AND INTERPRETATION, SEE INTRODUCTION.

*ESTIMATE IS LESS THAN 50 TRUCKS.

¹WHEN NO RESPONSE WAS OBTAINED FOR ANNUAL MILES, DATA WERE IMPUTED.

²DETAIL DOES NOT ADD TO TOTALS BECAUSE ITEMS WERE NOT APPLICABLE OR MULTIPLE RESPONSES WERE POSSIBLE.

³WHEN NO RESPONSE WAS OBTAINED, ONE TRUCK WAS IMPUTED BASED ON BODY TYPE OF SAMPLED VEHICLE.

⁴BECAUSE SOME "LIGHT" TRUCK RESPONDENTS WERE UNFAMILIAR WITH BRAKING SYSTEM TERMINOLOGY, A LARGE PROPORTION OF DATA FOR "OTHER" SHOULD BE FOR "HYDRAULIC" (E.G., DATA ON POWER ASSISTED BRAKES, DISC BRAKES, VACUUM-HYDRAULIC, ETC.)

⁵DATA RELATE ONLY TO SPECIFIED EQUIPMENT ON WHICH MAINTENANCE WAS PERFORMED.

⁶PICKUPS, PANELS, VANS, AND MULTISTOPS ARE NOT INCLUDED.

Table 3. Trucks by Major Use: 1977
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS		MAJOR USE									
TOTAL TRUCKS	STANDARD ERROR	STANDARD	AGRI-	FOREST-	MINING	MANU-	WHOLE-	DAILY	PERSON-	NOT IN	
		CULURE	LUMBER	RY AND	AND	FAC-	SALE	SERV-	AL TRANS-	RE-	
182.6	-	75.1	.4	.2	8.7	.9	2.8	8.8	3.7	1.6	1.1
TOTAL TRUCKS	STANDARD ERROR										
BODY TYPE											
PICKUP		125.1	2.4	51.8	.3	5.2	.3	4.1	.3	5.6	1.5
PANEL OR VAN		18.4	2.1	.6	-	.3	1.2	1.2	.3	.9	.3
MULTISTOP OR WALK-IN		1.1	.5	-	-	.3	1.3	1.3	.3	.1	.1
PLATFORM WITH ADDED DEVICES		3.1	.5	1.8	-	1.4	1.1	1.1	1.1	1.4	-
LOW BOY OR DEPRESSED CENTER		15.3	.3	.4	-	1.9	1.1	1.7	1.3	1.1	1.1
OTHER PLATFORM		17.2	.8	12.4	.1	1.1	1.1	1.1	1.1	1.1	1.1
CATTLE RACK		7.2	.5	6.8	-	.1	1.1	1.1	1.1	1.1	1.1
INSULATED NONREFRIGERATED VAN		1.5	.1	.1	-	.1	1.2	1.2	1.4	1.0	1.0
INSULATED REFRIGERATED VAN		1.4	.2	.1	-	.1	1.2	1.2	1.4	1.0	1.0
FURNITURE VAN		.5	.3	-	-	.1	1.3	1.3	1.3	1.1	1.1
OPEN TOP VAN		2.0	.1	.1	-	.1	1.1	1.1	1.1	1.1	1.1
OTHER ENCLOSED VANS		2.0	.2	.1	-	.1	1.2	1.2	1.2	1.2	1.2
BEVERAGE		.2	.1	.1	-	.1	1.3	1.3	1.3	1.3	1.3
UTILITY		.5	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
WINCH OR CRANE		.2	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
WRECKER		.2	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
ROLL-OFF		.8	.2	.1	-	.1	1.4	1.4	1.4	1.4	1.4
NOT SPECIFIED		2.6	.4	.1	-	.1	1.4	1.4	1.4	1.4	1.4
DUMP		2.5	.3	.1	-	.1	1.4	1.4	1.4	1.4	1.4
TANK FOR LIQUIDS		1.8	.2	.1	-	.1	1.4	1.4	1.4	1.4	1.4
TANK FOR DRY BULK		1.8	.2	.1	-	.1	1.4	1.4	1.4	1.4	1.4
CONCRETE MIXER		1.4	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
FRONT DISCHARGER		.4	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
REAR DISCHARGER		.4	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
NOT SPECIFIED		.1	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
OTHER		.1	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
NOT REPORTED		.1	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
GARBAGE HAULER:											
FRONT LOADER		.2	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
REAR LOADER		.2	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
ROLL-OFF		.1	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
NOT SPECIFIED		.1	.1	.1	-	.1	1.4	1.4	1.4	1.4	1.4
ANNUAL MILES ¹											
LESS THAN 5,000		64.4	3.0	34.9	.3	.1	2.0	1.4	1.4	1.8	20.0
5,000 TO 9,999		46.7	2.9	18.8	.1	1.1	2.7	2.7	2.7	2.7	19.2
10,000 TO 19,999		49.2	3.0	16.0	.1	1.1	2.7	2.7	2.7	2.7	24.8
20,000 TO 29,999		12.0	1.7	3.5	.1	1.4	1.4	1.4	1.4	1.4	3.7
30,000 TO 49,999		6.5	1.2	1.4	.1	1.5	1.5	1.5	1.5	1.5	1.2
50,000 TO 74,999		1.1	.2	.2	.1	1.1	1.1	1.1	1.1	1.1	1.1
75,000 OR MORE		2.7	.3	.3	.1	1.1	1.1	1.1	1.1	1.1	1.1
RANGE OF OPERATION											
LOCAL		146.6	2.4	59.4	.4	.1	6.3	.6	1.8	6.6	59.6
SHORT RANGE (200 MILES OR LESS)		14.5	1.7	2.1	.7	.3	1.3	.7	2.0	6.4	6.4
LONG RANGE (MORE THAN 200 MILES)		14.9	1.7	12.9	1.7	.1	1.3	.3	1.5	6.9	6.9
OFF-THE-ROAD		16.2	1.7	12.9	1.7	.1	1.8	.1	1.1	2.0	2.0
NOT REPORTED		.4	.1	.1	.1	.1	1.1	.1	1.1	1.2	1.2
BASE OF OPERATION											
PERCENTAGE OF MILES TRAVELED IN BASE OF OPERATION STATE:											
LES THAN 25 PERCENT		3.6	.6	.6	.1	1.1	1.1	1.1	1.1	1.9	1.9
25 TO 49 PERCENT		3.0	.8	.8	.1	1.3	1.3	1.3	1.3	1.4	1.4
50 TO 74 PERCENT		10.7	1.5	4.3	.1	1.4	1.4	1.4	1.4	1.5	1.5
75 TO 100 PERCENT		164.9	1.8	70.0	.1	1.7	1.7	1.7	1.7	1.8	1.8
NOT REPORTED		.4	.1	.1	.1	1.1	1.1	1.1	1.1	1.2	1.2

SEE FOOTNOTES AT END OF TABLE.

Table 3. Trucks by Major Use: 1977 - Con.

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS		MAJOR USE												
VEHICLE SIZE	TOTAL TRUCKS	STANDARD ERROR	AGRI-CULTURE	FOREST-LUMBERING	MINING AND QUARRYING	MANUFACTURING	WHOLE-SALE TRADE	RETAIL TRADE	SERVICES	DAILY RENTAL	PERSONAL TRANSPORTATION	OTHER	NOT IN USE	NOT REPORTED
LIGHT	150.1	.9	56.5	.3	6.3	.3	1.8	5.8	1.9	7.0	1.8	.8	.1	.1
LIGHT-HEAVY	16.1	1.0	10.6	.9	1.1	.4	1.4	1.5	1.4	1.4	.6	.1	.1	.1
HEAVY-HEAVY	7.5	.4	5.0	.1	1.1	.4	1.0	.5	1.1	1.2	.1	.1	.1	.1
GROSS WEIGHT	8.9	.4	2.9	.1	1.0	.3	.5	.6	2.9	1.3	.1	.1	.1	.1
6,000 OR LESS	128.3	2.3	46.3	.3	4.4	.3	1.5	4.0	1.9	5.8	62.6	1.7	5.5	1.5
6,000 TO 10,000	21.9	2.1	10.3	.3	1.9	.1	1.1	1.1	1.1	1.1	1.3	1.1	1.1	1.1
10,001 TO 14,000	5.2	.8	2.7	.1	.5	.1	1.1	1.1	1.1	1.1	5.0	1.0	1.1	1.1
14,001 TO 16,000	4.2	.4	3.2	.1	.5	.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1
16,001 TO 19,500	6.7	.6	4.8	.1	.5	.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1
19,501 TO 26,000	7.5	.4	5.0	.1	.4	.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1
26,001 TO 33,000	2.2	.2	1.5	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
33,001 TO 40,000	1.3	.2	1.5	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
40,001 TO 50,000	1.4	.1	1.5	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
50,001 TO 60,000	.5	.1	1.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
60,001 TO 80,000	3.5	.3	.5	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
80,001 TO 100,000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
100,001 TO 130,000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
130,001 AND OVER	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
NOT REPORTED	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
YEAR MODEL														
1978														
1977														
1976														
1975														
1974														
1973														
1972														
1971														
1970														
1969														
1968														
1967														
PRE-1967														
NOT REPORTED														
VEHICLE ACQUISITION														
PURCHASED NEW														
PURCHASED USED														
LEASED FROM SOMEONE ELSE														
LEASED TO SOMEONE ELSE														
NOT REPORTED														
LEASE CHARACTERISTICS ^a														
LEASED WITHOUT DRIVER														
LEASED WITH DRIVER														
LESSEE														
PRIVATE														
GOVERNMENT														
LENGTH OF LEASE ^b														
LESS THAN 30 DAYS														
30 DAYS TO 1 YEAR														
1 TO 3 YEARS														
MORE THAN 3 YEARS														
PROVISIONS OF LEASE ^c														
FINANCING														
MAINTENANCE														
PROCUREMENT AND SALE														

SEE FOOTNOTES AT END OF TABLE.

Table 3. Trucks by Major Use: 1977—Con.

42-10 SOUTH DAKOTA

VEHICULAR AND OPERATIONAL CHARACTERISTICS		MAJOR USE															
		TOTAL TRUCKS	STANDARD ERROR	AGRI-CULTURE	FOREST-RY AND LUMBER-ING	MINING AND QUARRY-ING	CON-STRUC-TION	MANU-FAC-TURING	WHOLE-SALE TRADE	RETAIL TRADE	FOR HIRE TRANS-PORTA-TION	UTILITIES	SER-VICES	DAILY RENTAL	PERSON-AL TRANS-PORTA-TION	NOT IN USE	NOT RE-PORTED
OPERATOR CLASSIFICATION																	
NOT FOR HIRE:																	
PRIVATE OWNER OR INDIVIDUAL:		174.8	.9	73.4	.4	.2	8.1	.9	2.7	8.4	.3	1.6				.9	
FOR HIRE INTERSTATE:																	
EXEMPT CARRIER		1.4	.4	.6													
CONTRACT CARRIER		1.6	.1	.1													
COMMON CARRIER		2.0	.2	.1													
FOR HIRE INTRASTATE:																	
LOCAL CARTAGE		2.5	.6	.9													
FOR HIRE DAILY RENTAL:		.7	.3														
NOT REPORTED		.5															
PRODUCTS CARRIED																	
FARM PRODUCTS		49.5	2.7	47.4													
LIVE ANIMALS		12.0	1.6	11.7													
MINING PRODUCTS		1.1															
LOGS AND OTHER FOREST PRODUCTS		1.7	.4														
PROCESSED FOODS		4.1	.8														
TEXTILE MILL PRODUCTS		3.3	.3														
BUILDING MATERIALS		9.6	1.4														
HOUSEHOLD GOODS		1.8	.3														
FURNITURE OR HARDWARE		1.4	.3														
PAPER PRODUCTS		.6	.4														
CHEMICALS		1.3	.5														
PETROLEUM		3.6	.7														
PRIMARY METAL PRODUCTS		1.9	.5														
FABRICATED METAL PRODUCTS		1.4	.4														
MACHINERY, EXCEPT ELECTRICAL		1.8	.7														
ELECTRICAL MACHINERY		2.2	.7														
TRANSPORTATION EQUIPMENT		2.4	.5														
SCRAP, REFUSE, OR GARBAGE		1.0	.2														
MIXED CARGOES		7.5	1.3														
CRAFTSMAN'S EQUIPMENT		7.7	1.4														
SPECIAL EQUIPMENT		1.5	.5														
PERSONAL TRANSPORTATION		69.8	3.2														
OTHER		1.6	.6														
NOT REPORTED		1.0	.4														
HAZARDOUS MATERIALS CARRIED																	
HAZARDOUS MATERIALS CARRIED:																	
LESS THAN 25 PERCENT OF TIME		2.3	.2														
25 TO 49 PERCENT OF TIME		1.3	.2														
50 TO 74 PERCENT OF TIME																	
75 TO 100 PERCENT OF TIME																	
NO PERCENT REPORTED																	
NO HAZARDOUS MATERIAL CARRIED		155.9	2.2	64.3	.4												
NOT REPORTED		24.3	2.2	10.7													
TRUCK FLEET SIZE ³																	
1		115.8	3.0	38.7													
2 TO 5		51.3	2.8	33.3													
6 TO 19		10.4	1.4	3.0													
20 OR MORE		5.0	.8	.1													
MILES PER GALLON																	
LESS THAN 5		13.8	.9	5.5													
5 TO 6.9		8.4	.9	4.2													
7 TO 8.9		18.6	1.7	11.3													
9 TO 11.9		45.3	2.9	20.5													
12 TO 14.9		35.4	2.8	14.7													
15 TO 19.9		38.0	2.8	12.4													
20 OR MORE		13.7	1.4	2.2													
NOT REPORTED																	

TRUCK INVENTORY AND USE SURVEY

SEE FOOTNOTES AT END OF TABLE.

Table 3. Trucks by Major Use: 1977 - Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS		MAJOR USE															
		TOTAL TRUCKS	STANDARD ERROR	AGRI-CULTURE	FORESTRY AND LUMBER QUARRYING	MINTING AND QUARRYING	CONSTRUCTION	MANUFACTURING	WHOLE-SALE TRADE	RETAIL TRADE	FOR HIRE TRANSPORTATION	UTILITIES	SERVICES	DAILY RENTAL	OTHER	NOT IN USE	NOT REPORTED
EQUIPMENT TYPE																	
TRANSMISSION:																	
MANUAL	114.5	3.2	.51.4	.1	6.1	.8	2.1	5.0	3.2	1.3	4.6	.1	37.8	1.5	.5		
AUTOMATIC	61.2	3.2	.21.2	.3	2.5	.1	2.1	3.7	1.5	2.9	4.5	.5	28.1	1.5	.6		
SEMIAUTOMATIC	6.2	1.2	.1.1	-	-	-	-	-	-	-	-	-	-	-	.5		
NOT REPORTED	6.7	1.2	.2.4	-	-	-	-	.1	.4	-	.5	-	-	-	.3	.2	
BREAKING SYSTEM:																	
HYDRAULIC	148.4	2.4	.63.1	.4	6.9	.7	2.0	6.9	.7	1.6	6.9	.6	56.5	1.7	.5		
AIR	8.7	.8	.2.5	.1	.9	.1	.5	1.0	.4	.5	1.4	.1	1.6	.6	.1		
OTHER	17.0	2.0	.7.3	.1	.9	.1	.5	.9	.1	.4	.4	-	-	7.9	.3	.1	
NOT REPORTED	8.4	1.4	.2.2	-	-	-	-	-	-	-	-	-	-	3.9	.3	.1	
ANTI-WHEEL-LOCK DEVICE ²	12.1	1.7	.3.6	.1	.9	.1	.6	.6	.1	.1	.3	.1	-	4.9	.1	.1	
POWER STEERING ²	74.5	3.2	.26.5	.3	4.2	.3	1.4	5.7	.1	1.0	.8	.1	.5	29.7	.6	.6	
AIR CONDITIONING ²	33.4	2.6	.7.9	.3	1.0	.1	.6	1.6	.1	2.0	.1	.1	.5	17.9	.6	.6	
FUEL CONSERVATION EQUIPMENT ²																	
RADIAL TIRES	34.3	2.7	.8.5	-	1.3	.1	1.1	2.6	.1	1.2	.2	.1	2.4	.1	16.4	.2	
DRAG REDUCTION DEVICES	18.3	2.1	.6.1	.3	1.5	.1	1.3	1.5	.8	.3	.2	.1	.9	.1	7.8	.3	
VARIABLE SPEED FAN	9.3	1.5	.3.5	.1	1.1	.1	1.4	1.2	.4	.2	.2	.1	1.6	.1	3.7	.3	
FUEL-EFFICIENT ENGINE	20.7	1.5	.11.9	.1	5.4	.1	1.0	1.7	.6	.5	.2	.1	1.5	.1	2.4	.4	
AXLE OR DRIVE RATIO CHANGE	115.1	3.1	.49.3	.1	5.4	.7	1.1	4.1	2.0	1.1	3.7	.6	44.8	1.3	1.0		
Maintenance ²																	
MAINTENANCE PERFORMED ON--																	
ENGINE	26.4	2.3	.11.6	-	.1	1.9	.2	.9	.7	.9	.5	.1	1.4	.1	7.6	.7	
TRANSMISSION	15.8	1.9	.7.2	-	.1	2.7	.1	1.0	.8	.4	.1	.1	1.9	.1	4.6	.3	
BRAKING SYSTEM	21.3	2.1	.2.1	-	.1	2.9	.1	1.3	.1	2.3	.1	.1	1.4	.1	7.3	.3	
REAR AXLE AND DIFFERENTIAL	6.2	1.3	.2.0	-	.1	4.2	.1	1.1	5.9	.1	1.9	.1	5.1	.1	3.2	.2	
NONE OF THE ABOVE	112.7	3.2	.46.0	.5	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	44.8	.5	
NOT REPORTED																	
MAINTENANCE PERFORMED BY--																	
SELF OR OWN REPAIR SHOP	22.0	2.2	.8.4	.1	.1	1.5	.1	.1	.5	.6	.1	.1	1.5	.1	9.3	.7	
TRUCK DEALER	10.9	1.5	.4.3	.3	.1	1.0	.1	.1	.1	.2	.1	.1	1.4	.1	2.3	.1	
FACTORY BRANCH	5.5	.5	.3	-	-	-	-	-	-	-	-	-	-	-	1.1	.1	
LEASING COMPANY	1.3	.6	.7	-	-	-	-	1.4	.1	.8	.1	.1	1.3	.1	7.3	.6	
INDEPENDENT GARAGE	22.0	2.1	.8.7	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.1	.1	1.2	.1	
OTHER	12.7	1.6	.5.1	.4	.1	4.8	.6	1.1	5.7	.1	2.4	.6	5.4	.3	50.2	.7	
NOT REPORTED	126.4	3.0	.53.1	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	
ENGINE TYPE AND SIZE																	
ENGINE ¹																	
GASOLINE	176.5	.5	.73.8	.4	.1	.6	.1	.6	.3	1.1	1.5	.1	7.7	.2	68.8	2.0	
DIESEL	5.7	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.2	.1	.1	.1	
LPG OR OTHER	.4	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.2	.1	.1	.1	
CYLINDERS ¹																	
4	7.7	1.4	.2.2	.1	.1	1.8	.1	1.8	.1	1.5	2.1	.1	1.3	.1	4.9	.2	
6	54.5	2.9	.49.2	.4	.1	6.8	.1	6.8	.1	7.2	1.5	.1	1.3	.1	42.3	1.1	
8	119.9	3.1	.49.2	.4	.1	6.8	.1	6.8	.1	7.2	1.5	.1	1.3	.1	42.3	1.1	
OTHER	.4	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.2	.1	1.2	.1	
NOT REPORTED																	
CUBIC INCH DISPLACEMENT ¹																	
GASOLINE ENGINES	4.1	1.1	.16.7	-	.1	.7	.1	.7	.1	.6	.1	.1	1.2	.1	3.2	.1	
LESS THAN 200	31.3	2.4	.16.9	-	.1	.7	.1	.7	.1	.6	.1	.1	1.2	.1	11.9	.1	
200 TO 299	200	1.0	.299	-	.1	.7	.1	.7	.1	.6	.1	.1	1.2	.1	9.5	.1	
300 TO 349	23.0	2.1	.6.9	-	.1	.7	.1	.7	.1	.6	.1	.1	1.2	.1	22.5	.1	
350 TO 399	60.0	3.1	.24.6	-	.1	.7	.1	.7	.1	.6	.1	.1	1.2	.1	33.7	.1	
400 OR MORE	13.6	1.8	.5.1	-	.1	.7	.1	.7	.1	.6	.1	.1	1.2	.1	16.0	.1	
NOT REPORTED	44.6	2.8	.19.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.2	.1	1.2	.1	

SEE FOOTNOTES AT END OF TABLE.

Table 3. Trucks by Major Use: 1977—Con.
(Thousands)

VEHICULAR AND OPERATIONAL CHARACTERISTICS		TOTAL TRUCKS	STANDARD ERROR	AGRI-CULTURE	FOREST-RY AND LUMBER	MINING AND QUARRY-ING	CON-STRUC-TION	MANU-FAC-TURING	WHOLE-SALE TRADE	RETAIL TRADE	FOR HIRE TRANS-PORTA-TION	UTILITIES	SER-VICES	DAILY RENTAL	MAJOR USE		
															PERSON-AL TRANS-PORTA-TION	OTHER	NOT IN USE
ENGINE TYPE AND SIZE--CON.																	
CUBIC INCH DISPLACEMENT--CON.																	
DIESEL ENGINES																	
LESS THAN 400																	
400 TO 599																	
600 TO 799																	
800 OR MORE																	
NOT REPORTED																	
OTHER ENGINES																	
LESS THAN 400																	
400 OR MORE																	
NOT REPORTED																	
TRUCK TYPE AND AXLE ARRANGEMENT																	
SINGLE-UNIT TRUCKS:																	
2 AXLES																	
3 AXLES																	
OTHER																	
TRUCK-TRACTOR COMBINATIONS:																	
SINGLE TRAILERS																	
3 AXLES																	
4 AXLES																	
5 AXLES																	
6 AXLES																	
OTHER																	
DOUBLE TRAILERS																	
5 AXLES																	
6 AXLES																	
OTHER																	
TRIPLE TRAILERS																	
7 AXLES																	
OTHER																	
TRAILER, NOT SPECIFIED																	
POWERED AXLES:																	
1																	
2																	
3																	
4																	
NOT REPORTED																	
CAB TYPE ^a																	
CAB FORWARD OF ENGINE																	
CAB OVER ENGINE																	
SHORT HOOD CONVENTIONAL																	
MEDIUM HOOD CONVENTIONAL																	
LONG HOOD CONVENTIONAL																	
OTHER																	
NOT REPORTED																	
CAB WITH SLEEPER UNIT																	

SEE FOOTNOTES AT END OF TABLE.

42-12 SOUTH DAKOTA

TRUCK INVENTORY AND USE SURVEY

Table 3. Trucks by Major Use: 1977—Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	MAJOR USE										PERSON-AL TRANS-PORTA-TION	OTHER	NOT IN USE	NOT RE-PORTED
		STANDARD ERROR	AGRI-CULTURE	FOREST-RY AND LUMBER	MINING AND QUARRY-ING	CON-STRUCTION	MANU-FAC-TURING	WHOLE-SALE TRADE	RETAIL TRADE	UTILITIES	SER-VICES				
PICKUPS, PANELS, VANS, MULTISTOPS, OR WALK-INS															
TOTAL:	144.7	1.1	52.5	.3	-	5.6	.3	1.8	5.6	.1	.6	6.5	.3	68.8	1.6
PICKUPS:	125.1	2.4	51.8	.3	-	5.2	.3	1.3	4.1	.1	.3	5.6	.1	55.3	1.5
PANELS OR VANS	18.4	2.1	.6	-	-	.5	.1	1.2	1.2	.1	.9	13.3	.3	13.3	.3
MULTISTOPS OR WALK-INS	1.1	.5	-	-	-	-	.3	.3	.1	-	-	.1	-	-	-
DRIVING WHEELS:															
4-WHEEL DRIVE:	35.0	2.8	14.2	-	-	1.4	-	1.2	3.5	-	.6	4.8	.3	16.4	.3
2-WHEEL DRIVE:	90.9	3.2	31.7	.3	-	3.5	.3	.6	.9	-	.6	4.8	.3	43.5	1.2
NOT REPORTED:	18.7	2.1	6.6	-	-	.6	-	-	-	-	-	8.8	.3	8.8	.3
AXLES ON VEHICLE:															
2:	114.9	2.7	42.6	.3	-	4.4	.3	1.2	4.7	-	.3	5.3	.3	53.9	1.2
3:	2.6	-	9.9	-	-	1.2	-	.6	.9	-	.3	1.2	-	1.2	-
NOT REPORTED:	29.8	2.6	-	-	-	-	-	-	-	-	.3	14.8	.6	14.8	.6
CAMPER BODY OR SPECIAL CAMPING EQUIPMENT:															
SLIDE-IN CAMPER:	5.2	1.2	.3	-	-	.3	-	-	-	-	-	4.3	.1	4.3	.1
PICKUP SHELL COVER:	1.1	2.1	3.8	-	-	.9	-	-	-	-	-	.6	-	11.3	.3
CAMPER BODY:	1.8	2.7	.3	-	-	.3	-	-	-	-	-	5.7	.3	52.9	.6
NOT REPORTED:	120.5	2.6	48.4	.3	-	4.1	.3	1.5	5.0	.1	.6	5.7	.3	52.2	1.5

NOTE: DATA RELATE TO STATE OF REGISTRATION WHICH IN MOST CASES IS BASE OF OPERATION; HOWEVER, SOME TRUCKS REGISTERED IN A GIVEN STATE ARE ACTUALLY BASED IN ANOTHER STATE BECAUSE THEY OPERATE INTERSTATE OR THEIR OPERATORS HAVE MOVED TO ANOTHER STATE. DETAILED FIGURES MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING. STANDARD ERROR IS AN ACTUAL NUMBER FOR DISCUSSION OF PROPER USE AND INTERPRETATION, SEE INTRODUCTION.

- ESTIMATE IS LESS THAN 50 TRUCKS.

¹WHEN NO RESPONSE WAS OBTAINED FOR ANNUAL MILES, DATA WERE IMPUTED.

²DETAIL DOES NOT ADD TO TOTALS BECAUSE ITEMS WERE NOT APPLICABLE OR MULTIPLE RESPONSES WERE POSSIBLE.

³WHEN NO RESPONSE WAS OBTAINED, ONE TRUCK WAS IMPUTED BASED ON BODY TYPE OF SAMPLED VEHICLE.

⁴BECUSE SOME "LIGHT" TRUCK RESPONDENTS WERE UNFAMILIAR WITH BRAKING SYSTEM TERMINOLOGY, A LARGE PROPORTION OF DATA FOR "OTHER" SHOULD BE FOR "HYDRAULIC" (E.G., DATA ON POWER ASSISTED BRAKES, DISC BRAKES, VACUUM-HYDRAULIC, ETC.).

⁵DATA RELATE ONLY TO SPECIFIED EQUIPMENT ON WHICH MAINTENANCE WAS PERFORMED.
⁶PICKUPS, PANELS, VANS, AND MULTISTOPS ARE NOT INCLUDED.

Table 4. Trucks by Size: 1977
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	VEHICLE SIZE			
			LIGHT	MEDIUM	LIGHT-HEAVY	HEAVY-HEAVY
TOTAL TRUCKS	182.6	-	150.1	16.1	7.5	8.9
STANDARD ERROR	-	-	.9	1.0	.4	.4
MAJOR USE						
AGRICULTURE	75.1	3.1	56.5	10.6	5.0	2.9
FORESTRY AND LUMBERING . . . . .	.4	.3	.3	-	.1	.1
MINING AND QUARRYING . . . . .	.2	.1	-	-	.1	.1
CONSTRUCTION	8.7	1.3	6.3	.9	.4	1.0
MANUFACTURING . . . . .	.9	.3	.3	.1	.1	.3
WHOLESALE TRADE	2.8	.7	1.8	.4	.2	.5
RETAIL TRADE	6.8	1.3	5.8	1.5	1.0	.6
FOR HIRE TRANSPORTATION	3.7	.3	-	.4	.3	2.9
UTILITIES	1.6	.6	.9	.6	.1	-
SERVICES	7.9	1.4	7.0	.4	.2	.3
DAILY RENTAL . . . . .	.7	.3	.3	.3	-	.1
PERSONAL TRANSPORTATION	68.8	3.2	68.2	.6	-	-
OTHER	2.1	.7	1.8	.1	.1	.1
NOT IN USE	1.1	.4	.8	.1	.1	.1
NOT REPORTED	-	-	-	-	-	-
BODY TYPE						
PICKUP	125.1	2.4	123.8	1.3	-	-
PANEL OR VAN	18.4	2.1	18.4	-	-	-
MULTISTOP OR WALK-IN	1.1	.5	1.0	.1	-	-
PLATFORM WITH ADDED DEVICES	3.1	.5	1.1	1.0	.7	.3
LOW BOY OR DEPRESSED CENTER . . . . .	.5	.3	.3	-	.2	.2
OTHER PLATFORM	15.3	.8	3.2	6.8	3.4	1.9
CATTLE RACK	7.2	.5	1.1	3.2	1.7	1.2
INSULATED NONREFRIGERATED VAN . . . . .	.5	.1	-	.1	.1	.5
INSULATED REFRIGERATED VAN	1.4	.2	-	.1	.1	1.1
FURNITURE VAN . . . . .	.5	.3	.3	.1	-	.1
OPEN TOP VAN . . . . .	.2	.1	-	-	-	.1
OTHER ENCLOSED VANS	2.0	.2	-	.6	.2	1.2
BEVERAGE . . . . .	.2	.1	-	.2	-	-
UTILITY . . . . .	.5	.3	-	.5	-	-
WINCH OR CRANE . . . . .	.5	.3	.3	.2	.1	-
WRECKER . . . . .	.2	.1	.1	-	-	-
POLE OR LOGGING	-	-	-	-	-	-
AUTO TRANSPORT	-	-	-	-	-	-
BOAT TRANSPORT	-	-	-	-	-	-
MOBILE HOME PULLER . . . . .	.2	.1	-	-	-	.1
GARBAGE HAULER:						
FRONT LOADER	-	-	-	-	-	-
REAR LOADER . . . . .	.2	.1	-	.1	-	.1
ROLL OFF	-	-	-	-	-	-
NOT SPECIFIED	-	-	-	-	-	-
DUMP	1.8	.2	.3	.5	.3	.8
TANK FOR LIQUIDS	2.6	.4	.2	1.2	.7	.5
TANK FOR DRY BULK . . . . .	.3	.1	-	.1	.1	.1
CONCRETE MIXER:						
FRONT DISCHARGER	-	-	-	-	-	-
REAR DISCHARGER . . . . .	.4	.1	-	-	-	.4
NOT SPECIFIED . . . . .	.1	-	-	-	-	.1
OTHER . . . . .	.1	.1	-	-	-	-
NOT REPORTED	-	-	-	-	-	-
ANNUAL MILES ¹						
LESS THAN 5,000	64.4	3.0	48.6	9.8	4.3	1.7
5,000 TO 9,999	46.7	2.9	41.8	2.3	1.3	1.4
10,000 TO 19,999	49.2	3.0	44.9	2.4	1.0	.9
20,000 TO 29,999	12.0	1.7	9.8	1.0	.6	.6
30,000 TO 49,999	6.5	1.2	4.9	.5	.2	.8
50,000 TO 74,999	1.1	.2	-	.1	.2	.9
75,000 OR MORE	2.7	.3	-	-	.1	2.5
RANGE OF OPERATION						
LOCAL	146.6	2.4	125.5	11.9	5.8	3.5
SHORT RANGE (200 MILES OR LESS)	14.5	1.7	10.9	1.2	.6	1.8
LONG RANGE (MORE THAN 200 MILES)	4.9	.7	1.5	.4	-	3.0
OFF-THE-ROAD	16.2	1.7	12.1	2.6	1.0	.6
NOT REPORTED . . . . .	.4	.1	.1	.1	.1	.1
BASE OF OPERATION						
PERCENTAGE OF MILES TRAVELED IN BASE-OF-OPERATION STATE:						
LESS THAN 25 PERCENT	3.6	.6	1.2	.3	-	2.1
25 TO 49 PERCENT	3.0	.8	2.1	.1	.1	.8
50 TO 74 PERCENT	10.7	1.5	8.5	.5	.3	1.4
75 TO 100 PERCENT	164.9	1.8	138.2	15.1	7.1	4.6
NOT REPORTED . . . . .	.4	.1	.1	.1	.1	-

SEE FOOTNOTES AT END OF TABLE.

Table 4. Trucks by Size: 1977—Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	VEHICLE SIZE			
			LIGHT	MEDIUM	LIGHT-HEAVY	HEAVY-HEAVY
GROSS WEIGHT						
6,000 OR LESS.	128.3	2.3	128.3	-	-	-
6,001 TO 10,000.	21.9	2.1	21.9	-	-	-
10,001 TO 14,000.	5.2	.8	-	5.2	-	-
14,001 TO 16,000.	4.2	.4	-	4.2	-	-
16,001 TO 19,500.	6.7	.6	-	6.7	-	-
19,501 TO 26,000.	7.5	.4	-	-	7.5	-
26,001 TO 33,000.	2.2	.2	-	-	-	2.2
33,001 TO 40,000.	1.3	.2	-	-	-	1.3
40,001 TO 50,000.	1.4	.2	-	-	-	1.4
50,001 TO 60,000.	.5	.1	-	-	-	.5
60,001 TO 80,000.	3.5	.3	-	-	-	3.5
80,001 TO 100,000.	.1	-	-	-	-	.1
100,001 TO 130,000.	-	-	-	-	-	-
130,001 AND OVER.	-	-	-	-	-	-
NOT REPORTED.	-	-	-	-	-	-
YEAR MODEL						
1978	.1	-	-	-	-	.1
1977	12.7	1.7	10.7	.8	.3	1.0
1976	17.7	2.0	16.2	.3	.4	.8
1975	10.9	1.6	9.0	.8	.3	.9
1974	17.7	2.0	15.0	1.0	.6	1.2
1973	16.3	1.9	13.8	.8	.5	1.0
1972	10.6	1.6	9.2	.5	.3	.5
1971	7.5	1.3	6.3	.3	.3	.6
1970	10.3	1.5	8.8	.8	.2	.5
1969	6.0	1.1	5.8	1.3	.4	.5
1968	8.4	1.4	7.0	.7	.3	.3
1967	9.6	1.5	7.9	.9	.4	.3
PRE-1967	54.9	2.8	42.4	7.9	.3	1.2
NOT REPORTED	-	-	-	-	-	-
VEHICLE ACQUISITION						
PURCHASED NEW.	72.1	3.2	58.5	5.8	3.5	4.2
PURCHASED USED	105.9	3.2	88.7	10.0	3.9	3.4
LEASED FROM SOMEONE ELSE	1.6	.3	.3	.1	.2	1.2
LEASED TO SOMEONE ELSE	2.5	.5	.9	.5	.2	1.0
NOT REPORTED	3.0	.8	2.6	.2	.1	.1
LEASE CHARACTERISTICS²						
LEASED WITHOUT DRIVER.	1.8	.5	.9	.5	.1	.4
LEASED WITH DRIVER.	1.9	.4	.3	-	.1	1.5
LESSEE:	3.8	.6	1.2	.5	.2	2.0
PRIVATE.	-	-	-	-	-	-
GOVERNMENT	-	-	-	-	-	-
LENGTH OF LEASE:	1.2	.4	.6	.3	-	.3
LESS THAN 30 DAYS.	1.3	.2	-	-	-	1.2
30 DAYS TO 1 YEAR.	.8	.4	.6	.1	.1	.1
1 TO 3 YEARS.	.5	.1	.6	.1	.1	.4
MORE THAN 3 YEARS.	-	-	-	.1	-	-
PROVISIONS OF LEASE:	.6	.3	.3	.1	.1	.1
FINANCING.	1.1	.4	.6	.3	.1	.2
MAINTENANCE.	-	-	-	-	-	-
PROCUREMENT AND SALE	-	-	-	-	-	-
OPERATOR CLASSIFICATION						
NOT FOR HIRE:						
PRIVATE OWNER OR INDIVIDUAL.	174.8	.9	147.6	15.1	7.0	5.1
FOR HIRE INTERSTATE:						
EXEMPT CARRIER	1.4	.4	.6	.1	-	.8
CONTRACT CARRIER	.6	.1	-	-	-	.6
COMMON CARRIER	2.0	.2	-	.2	.1	1.7
FOR HIRE INTRASTATE:						
LOCAL CARTAGE.	2.5	.6	1.3	.4	.3	.5
FOR HIRE DAILY RENTAL.	.7	.3	.3	.3	-	.1
NOT REPORTED	.5	.3	.4	.1	.1	-
PRODUCTS CARRIED						
FARM PRODUCTS.	49.5	2.7	33.6	8.5	4.6	2.8
LIVE ANIMALS.	12.0	1.6	8.7	1.8	.7	.7
MINING PRODUCTS.	.1	-	-	-	-	.1
LOGS AND OTHER FOREST PRODUCTS	.7	.4	.6	-	-	-
PROCESSED FOODS.	4.1	.8	2.0	.5	.2	1.4
TEXTILE MILL PRODUCTS.	.3	.3	.3	-	-	-
BUILDING MATERIALS.	9.6	1.4	6.7	1.1	.6	1.2
HOUSEHOLD GOODS.	.8	.3	.3	.4	-	.1
FURNITURE OR HARDWARE.	.4	.3	.3	-	-	-
PAPER PRODUCTS.	.6	.4	.6	-	-	-
CHEMICALS.	1.3	.5	1.0	.1	.1	.1
PETROLEUM.	3.6	.7	1.6	1.0	.5	.4
PRIMARY METAL PRODUCTS.	-	-	-	-	-	-
FABRICATED METAL PRODUCTS.	-	-	-	-	-	-
MACHINERY, EXCEPT ELECTRICAL.	1.4	.4	.6	.2	.2	.5
ELECTRICAL MACHINERY.	1.8	.7	1.7	-	-	-
TRANSPORTATION EQUIPMENT.	2.2	.7	1.8	.1	.1	.1
SCRAP, REFUSE, OR GARBAGE.	4.5	1.0	4.0	.3	.1	.2
MIXED CARGOES.	7.3	1.3	5.8	.3	.1	1.1
CRAFTSMAN'S EQUIPMENT.	7.7	1.4	7.3	.3	.1	.1
SPECIAL EQUIPMENT.	1.5	.5	.9	.4	.1	.1
PERSONAL TRANSPORTATION.	69.8	3.2	69.2	.6	.1	.1
OTHER.	1.6	.6	1.3	.2	.1	.1
NOT REPORTED.	1.0	.4	.8	.1	.1	.1

SEE FOOTNOTES AT END OF TABLE.

Table 4. Trucks by Size: 1977—Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	VEHICLE SIZE			
			LIGHT	MEDIUM	LIGHT-HEAVY	HEAVY-HEAVY
HAZARDOUS MATERIALS CARRIED						
HAZARDOUS MATERIALS CARRIED	2.3	.2				
LESS THAN 25 PERCENT OF TIME	1.3	.2	.1	.5	.3	1.4
25 TO 49 PERCENT OF TIME	-	-	-	.1	.1	1.1
50 TO 74 PERCENT OF TIME	-	-	-	-	-	-
75 TO 100 PERCENT OF TIME	.9	.2	-	.4	.2	.2
NO PERCENT REPORTED	.1	.1	.1	.1	-	-
NO HAZARDOUS MATERIAL CARRIED	155.9	2.2	129.7	13.2	6.2	6.8
NOT REPORTED	24.3	2.2	20.4	2.3	1.0	.7
TRUCK FLEET SIZE ¹						
1	115.8	3.0	106.6	5.8	1.9	1.5
2 TO 5	51.3	2.8	36.1	7.5	4.6	3.2
6 TO 19	10.4	1.4	5.7	2.4	.7	1.6
20 OR MORE	5.0	.8	1.8	.3	.3	2.6
MILES PER GALLON						
LESS THAN 5	13.8	.9	2.6	2.9	2.2	6.2
5 TO 6.9	8.4	.9	3.1	2.1	1.6	1.6
7 TO 8.9	18.6	1.7	10.7	4.9	2.2	.8
9 TO 11.9	45.3	2.9	41.0	3.4	.8	.1
12 TO 14.9	39.4	2.8	37.5	1.5	-	-
15 TO 19.9	36.0	2.8	35.8	.1	.1	-
20 OR MORE	7.7	1.4	7.7	-	-	-
NOT REPORTED	13.4	1.7	11.8	1.1	.3	.2
EQUIPMENT TYPE						
TRANSMISSION:						
MANUAL	114.5	3.2	84.4	14.8	7.2	8.1
AUTOMATIC	61.2	3.2	59.9	.9	.1	.2
SEMIAUTOMATIC	.2	.1	-	.1	.1	.1
NOT REPORTED	6.7	1.2	5.8	.3	.1	.5
BRAKING SYSTEM:						
HYDRAULIC ⁴	148.4	2.4	125.0	13.9	6.6	3.0
AIR	6.7	.8	1.6	.9	.7	.5
OTHER ⁴	17.0	2.0	15.9	.9	.1	.1
NOT REPORTED	8.4	1.4	7.7	.3	.1	.4
ANTI-WHEEL-LOCK DEVICE ²	12.1	1.7	9.9	.5	.2	1.6
POWER STEERING ²	74.5	3.2	63.0	4.5	2.9	4.2
AIR CONDITIONING ²	33.4	2.6	29.8	.5	.1	3.1
FUEL CONSERVATION EQUIPMENT ²						
RADIAL TIRES	34.3	2.7	29.8	1.4	.5	2.6
DRAG REDUCTION DEVICES	.3	.1	-	-	.3	.3
VARIABLE SPEED FAN	18.3	2.1	16.8	.5	.3	.7
FUEL EFFICIENT ENGINE	9.3	1.5	7.9	.3	.2	.9
AXLE OR DRIVE RATIO CHANGE	20.7	1.5	8.4	5.8	3.9	2.5
NOT REPORTED	115.1	3.1	99.6	8.3	3.3	3.9
MAINTENANCE ²						
MAINTENANCE PERFORMED ON--						
ENGINE	26.4	2.3	20.4	2.4	1.4	2.1
TRANSMISSION	15.8	1.9	13.2	.8	.4	1.4
BRAKING SYSTEM	21.3	2.1	17.2	2.0	.8	1.3
REAR AXLE AND DIFFERENTIAL	8.2	1.3	6.0	.9	.2	1.2
NONE OF THE ABOVE	112.7	3.2	93.2	9.9	4.7	4.8
NOT REPORTED	-	-	-	-	-	-
MAINTENANCE PERFORMED BY ⁵ --						
SELF OR OWN REPAIR SHOP	23.2	2.2	18.4	2.1	.9	1.8
TRUCK DEALER	10.9	1.5	8.5	1.0	.6	.8
FACTORY BRANCH	.5	.3	.3	-	-	.1
LEASING COMPANY	1.3	.6	1.2	.1	-	.1
INDEPENDENT GARAGE	22.0	2.1	18.4	1.7	.9	1.0
OTHER	1.7	.6	1.5	.1	.1	-
NOT REPORTED	126.4	3.0	104.9	11.2	5.1	5.2
ENGINE TYPE AND SIZE						
ENGINE:						
GASOLINE	176.5	.5	149.8	15.8	7.0	4.0
DIESEL	5.7	.5	.3	.1	.4	4.9
LPG OR OTHER	.4	.1	-	.2	.2	-
NOT REPORTED	-	-	-	-	-	-
CYLINDERS:						
4	7.7	1.4	7.5	.2	-	-
6	54.5	2.9	44.4	5.1	1.7	3.4
8	119.9	3.1	97.9	10.7	5.8	5.5
OTHER	-	-	-	-	-	-
NOT REPORTED	.4	.3	.4	.1	-	-
CUBIC INCH DISPLACEMENT:						
GASOLINE ENGINES						
LESS THAN 200	4.1	1.1	4.1	-	-	-
200 TO 299	31.3	2.4	25.9	4.0	1.2	.2
300 TO 349	23.0	2.1	16.2	4.1	1.9	.8
350 TO 399	60.0	3.1	52.1	3.8	2.4	1.8
400 OR MORE	13.6	1.8	11.9	.6	.2	.9
NOT REPORTED	44.6	2.8	39.6	3.3	1.3	.4

SEE FOOTNOTES AT END OF TABLE.

Table 4. Trucks by Size: 1977—Con.

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	VEHICLE SIZE			
			LIGHT	MEDIUM	LIGHT-HEAVY	HEAVY-HEAVY
ENGINE TYPE AND SIZE--CON.						
CUBIC INCH DISPLACEMENT--CON.						
DIESEL ENGINES						
LESS THAN 400 . . . . .	.2	.1	-	-	.1	.1
400 TO 599 . . . . .	.9	.3	.3	-	-	.6
600 TO 799 . . . . .	.6	.1	-	-	.1	.5
800 OR MORE . . . . .	.6	.1	-	-	.1	.6
NOT REPORTED	3.3	.3	-	.1	.2	3.0
OTHER ENGINES						
LESS THAN 400 . . . . .	.3	.1	-	.1	.1	-
400 OR MORE . . . . .	.1	-	-	-	.1	-
NOT REPORTED	-	-	-	-	-	-
TRUCK TYPE AND AXLE ARRANGEMENT						
SINGLE-UNIT TRUCKS:						
2 AXLES	174.1	.5	150.1	15.4	6.6	2.0
3 AXLES	3.1	.3	-	.3	.8	2.0
OTHER . . . . .	.1	-	-	-	.1	-
TRUCK-TRACTOR COMBINATIONS:						
SINGLE TRAILERS						
3 AXLES . . . . .	.2	.1	-	-	-	.2
4 AXLES	1.2	.3	-	.3	.1	.8
5 AXLES	3.4	.3	-	-	.4	3.4
6 AXLES . . . . .	.1	.1	-	-	-	.1
OTHER . . . . .	.1	-	-	-	-	.1
DOUBLE TRAILERS						
5 AXLES	-	-	-	-	-	-
6 AXLES . . . . .	.1	.1	-	-	-	.1
OTHER	-	-	-	-	-	-
TRIPLE TRAILERS						
7 AXLES	-	-	-	-	-	-
OTHER	-	-	-	-	-	-
TRAILER NOT SPECIFIED . . . . .	.2	.1	-	-	-	.1
POWERED AXLES:						
1	134.9	2.9	108.8	15.2	7.1	3.9
2	41.0	2.8	34.8	.9	.4	4.9
3 . . . . .	.1	.1	-	-	.1	-
4	-	-	-	-	-	-
NOT REPORTED	6.5	1.3	6.5	-	-	-
CAB TYPE ⁶						
CAB FORWARD OF ENGINE . . . . .	.9	.2	.1	.3	.3	.2
CAB OVER ENGINE	4.5	.3	-	.3	.4	.8
SHORT HOOD CONVENTIONAL	5.9	.4	-	2.3	1.3	1.4
MEDIUM HOOD CONVENTIONAL	15.4	.9	3.1	6.3	3.5	2.4
LONG HOOD CONVENTIONAL	11.0	.9	2.8	5.2	1.9	1.1
OTHER . . . . .	.2	.1	.1	.1	-	-
NOT REPORTED . . . . .	.1	-	-	-	-	-
CAB WITH SLEEPER UNIT	3.3	.3	-	-	.1	3.2
PICKUPS, PANELS, VANS, MULTISTOPS, OR WALK-INS						
TOTAL	144.7	1.1	143.2	1.4	-	-
PICKUPS	125.1	2.4	123.8	1.3	-	-
PANELS OR VANS	18.4	2.1	18.4	-	-	-
MULTISTOPS OR WALK-INS	1.1	.5	1.0	.1	-	-
DRIVING WHEELS:						
4-WHEEL DRIVE	35.0	2.8	34.4	.6	-	-
2-WHEEL DRIVE	90.9	3.2	90.1	.8	-	-
NOT REPORTED	18.7	2.1	18.7	-	-	-
AXLES ON VEHICLE:						
2	114.9	2.7	113.8	1.1	-	-
3	-	-	-	-	-	-
NOT REPORTED	29.8	2.6	29.5	.3	-	-
CAMPER BODY OR SPECIAL CAMPING EQUIPMENT:						
SLIDE-IN CAMPER	5.2	1.2	5.2	-	-	-
PICKUP SHELL COVER	17.1	2.1	16.8	.3	-	-
CAMPER BODY	1.8	.7	1.8	-	-	-
NOT REPORTED	120.5	2.6	119.4	1.1	-	-

NOTE: DATA RELATE TO STATE OF REGISTRATION, WHICH IN MOST CASES IS BASE OF OPERATION; HOWEVER, SOME TRUCKS REGISTERED IN A GIVEN STATE ARE ACTUALLY BASED IN ANOTHER STATE BECAUSE THEY OPERATE INTERSTATE OR THEIR OPERATORS HAVE MOVED TO ANOTHER STATE. DETAILED FIGURES MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING. STANDARD ERROR IS AN ACTUAL NUMBER; FOR DISCUSSION OF PROPER USE AND INTERPRETATION, SEE INTRODUCTION.

- ESTIMATE IS LESS THAN 50 TRUCKS.

¹WHEN NO RESPONSE WAS OBTAINED FOR ANNUAL MILES, DATA WERE IMPUTED.

²DETAIL DOES NOT ADD TO TOTALS BECAUSE ITEMS WERE NOT APPLICABLE OR MULTIPLE RESPONSES WERE POSSIBLE.

³WHEN NO RESPONSE WAS OBTAINED, ONE TRUCK WAS IMPUTED BASED ON BODY TYPE OF SAMPLED VEHICLE.

⁴BECUSE SOME "LIGHT" TRUCK RESPONDENTS WERE UNFAMILIAR WITH BRAKING SYSTEM TERMINOLOGY, A LARGE PROPORTION OF DATA FOR "OTHER" SHOULD BE FOR "HYDRAULIC" (E.G., DATA ON POWER ASSISTED BRAKES, DISC BRAKES, VACUUM-HYDRAULIC, ETC.).

⁵DATA RELATE ONLY TO SPECIFIED EQUIPMENT ON WHICH MAINTENANCE WAS PERFORMED.

⁶PICKUPS, PANELS, VANS, AND MULTISTOPS ARE NOT INCLUDED.

Table 5. Trucks by Annual Miles: 1977
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	ANNUAL MILES ¹						
			LESS THAN 5,000	5,000 TO 9,999	10,000 TO 19,999	20,000 TO 29,999	30,000 TO 49,999	50,000 TO 74,999	75,000 OR MORE
TOTAL TRUCKS	182.6	-	64.4	46.7	49.2	12.0	6.5	1.1	2.7
STANDARD ERROR	-	-	3.0	2.9	3.0	1.7	1.2	.2	.3
MAJOR USE									
AGRICULTURE	75.1	3.1	34.9	18.8	16.0	3.5	1.4	.2	.3
FORESTRY AND LUMBERING . . . . .	.4	.3	.3	-	-	.1	-	-	-
MINING AND QUARRYING . . . . .	.2	.1	-	.1	-	-	-	-	-
CONSTRUCTION	8.7	1.3	2.0	1.1	2.7	1.4	1.3	.1	.1
MANUFACTURING . . . . .	.9	.3	.2	.4	-	-	.1	-	-
WHOLESALE TRADE	2.8	.7	.4	.4	.4	.9	.5	.1	.1
RETAIL TRADE	8.8	1.3	1.8	2.7	2.1	1.4	.5	.3	.2
FOR HIRE TRANSPORTATION	3.7	.3	.4	.2	.4	.1	.3	.3	2.0
UTILITIES	1.6	.6	.5	.7	.2	-	.3	-	-
SERVICES	7.9	1.4	1.8	2.7	2.0	.6	.9	-	-
DAILY RENTAL . . . . .	.7	.3	-	-	.3	.3	.1	-	-
PERSONAL TRANSPORTATION	68.8	3.2	20.0	19.2	24.8	3.7	1.2	-	-
OTHER	2.1	.7	1.1	.6	.3	-	.1	-	-
NOT IN USE	1.1	.4	1.1	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-
BODY TYPE									
PICKUP	125.1	2.4	39.5	35.3	38.2	8.1	4.0	-	-
PANEL OR VAN	18.4	2.1	3.7	4.9	6.9	1.7	1.2	-	-
MULTISTOP OR WALK-IN	1.1	.5	.4	.3	.4	-	.1	-	-
PLATFORM WITH ADDED DEVICES	3.1	.5	2.1	.4	.4	.2	-	-	-
LOW BOY OR DEPRESSED CENTER . . . . .	.5	.3	.3	-	.1	.3	.2	-	-
OTHER PLATFORM	15.3	.8	11.1	2.3	1.1	.5	.1	-	-
CATTLE RACK	7.2	.5	4.5	1.6	.5	.1	.1	-	-
INSULATED NONREFRIGERATED VAN . . . . .	.5	.1	-	.1	-	.1	.1	-	-
INSULATED REFRIGERATED VAN	1.4	.2	-	.1	-	.1	.1	-	.8
FURNITURE VAN . . . . .	.5	.3	.1	.3	-	-	-	-	-
OPEN TOP VAN . . . . .	.2	.1	-	-	-	-	-	-	.1
OTHER ENCLOSED VANS	2.0	.2	.3	.2	.2	.3	.2	.1	.7
BEVERAGE . . . . .	.2	.1	-	.1	.1	.1	.1	-	-
UTILITY . . . . .	.5	.3	.1	-	.1	.3	.1	-	-
WINCH OR CRANE . . . . .	.5	.3	.1	.3	.1	-	-	-	-
WRECKER . . . . .	.2	.1	.1	-	-	-	-	-	-
POLE OR LOGGING	-	-	-	-	-	-	-	-	-
AUTO TRANSPORT	-	-	-	-	-	-	-	-	-
BOAT TRANSPORT	-	-	-	-	-	-	-	-	-
MOBILE HOME PULLER . . . . .	.2	.1	.1	-	-	-	.1	-	-
GARBAGE HAULER:									
FRONT LOADER	-	-	-	-	-	-	-	-	-
REAR LOADER . . . . .	.2	.1	.1	.1	.1	-	-	-	-
ROLL OFF	-	-	-	-	-	-	-	-	-
NOT SPECIFIED	-	-	-	-	-	-	-	-	-
DUMP	1.8	.2	.9	.3	.2	.2	.2	.2	.1
TANK FOR LIQUIDS	2.6	.4	.8	.3	.7	.4	.2	.2	.1
TANK FOR DRY BULK . . . . .	.3	.1	.1	.3	.1	-	-	-	-
CONCRETE MIXER:									
FRONT DISCHARGER	-	-	-	-	-	-	-	-	-
REAR DISCHARGER . . . . .	.4	.1	.1	.2	.1	-	-	-	-
NOT SPECIFIED . . . . .	.1	-	-	-	-	-	-	-	-
OTHER . . . . .	.1	.1	.1	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-
RANGE OF OPERATION									
LOCAL	146.6	2.4	52.1	40.7	42.2	8.8	2.6	.2	.1
SHORT RANGE (200 MILES OR LESS)	14.5	1.7	1.8	2.2	4.4	2.3	3.0	.4	.4
LONG RANGE (MORE THAN 200 MILES)	4.9	.7	.1	.5	.9	.3	.5	.4	2.2
OFF-THE-ROAD	16.2	1.7	10.1	3.4	1.6	.7	.3	-	-
NOT REPORTED . . . . .	.4	.1	.3	.1	-	-	-	-	-
BASE OF OPERATION									
PERCENTAGE OF MILES TRAVELED IN BASE-OF-OPERATION STATE:									
LESS THAN 25 PERCENT	3.6	.6	.4	.6	.3	.4	.2	.2	1.7
25 TO 49 PERCENT	3.0	.8	.4	.3	.6	.3	.7	.1	.5
50 TO 74 PERCENT	10.7	1.5	.8	3.2	3.0	2.2	.9	.3	.3
75 TO 100 PERCENT	164.9	1.8	62.9	42.8	45.0	9.2	4.5	.4	.2
NOT REPORTED . . . . .	.4	.1	.4	-	-	-	-	-	-
VEHICLE SIZE									
LIGHT	150.1	.9	48.6	41.8	44.9	9.8	4.9	-	-
MEDIUM	16.1	1.0	9.8	2.3	2.4	1.0	.5	.1	-
LIGHT-HEAVY	7.5	.4	4.3	1.3	1.0	.6	.2	-	.1
HEAVY-HEAVY	8.9	.4	1.7	1.4	.9	.6	.8	.9	2.5

SEE FOOTNOTES AT END OF TABLE.

Table 5. Trucks by Annual Miles: 1977—Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	ANNUAL MILES ¹						
			LESS THAN 5,000	5,000 TO 9,999	10,000 TO 19,999	20,000 TO 29,999	30,000 TO 49,999	50,000 TO 74,999	75,000 OR MORE
GROSS WEIGHT									
6,000 OR LESS.	128.3	2.3	42.3	35.9	37.2	8.7	4.0	-	-
6,001 TO 10,000.	21.9	2.1	6.3	5.8	7.7	1.2	.9	-	-
10,001 TO 14,000.	9.2	.6	2.9	.5	1.2	.5	.1	-	-
14,001 TO 16,000.	4.2	.4	3.1	.4	.4	.1	.1	-	-
16,001 TO 19,500.	6.7	.6	3.7	1.4	.7	.3	.4	-	-
19,501 TO 26,000.	7.5	.4	4.3	1.3	1.0	.6	.2	-	-
26,001 TO 33,000.	2.2	.2	.9	.7	.2	.2	.1	-	-
33,001 TO 40,000.	1.3	.2	.5	.2	.2	.1	.2	-	-
40,001 TO 50,000.	1.4	.2	.3	.4	.3	.2	.1	-	-
50,001 TO 60,000.	.5	.1	-	-	.1	.1	.2	.1	-
60,001 TO 80,000.	3.5	.3	-	.1	.1	.1	.3	.5	2.3
80,001 TO 100,000.	.1	-	-	-	-	-	-	-	-
100,001 TO 130,000.	-	-	-	-	-	-	-	-	-
130,001 AND OVER.	-	-	-	-	-	-	-	-	-
NOT REPORTED.	-	-	-	-	-	-	-	-	-
YEAR MODEL									
1978.	.1	-	-	-	-	-	-	-	-
1977.	12.7	1.7	.6	3.0	5.4	1.9	1.0	.3	.5
1976.	17.7	2.0	1.6	3.5	8.3	2.4	1.3	.1	.4
1975.	10.9	1.6	1.4	2.0	3.4	2.6	1.1	.1	.4
1974.	17.7	2.0	3.1	3.5	9.1	1.1	.4	.2	.4
1973.	16.3	1.9	2.2	4.2	7.3	1.6	.4	.1	.4
1972.	10.6	1.6	1.6	3.8	4.0	.6	.3	.1	.2
1971.	7.5	1.3	3.2	1.9	1.4	.4	.4	-	-
1970.	10.3	1.5	2.9	3.8	2.6	.4	.5	-	.1
1969.	6.0	1.1	1.4	2.6	1.6	.3	.1	-	-
1968.	8.4	1.4	3.1	2.9	2.0	.1	.3	-	-
1967.	9.6	1.5	4.0	3.8	1.4	.4	.1	-	-
PRE-1967.	54.9	2.8	39.5	11.8	2.8	.2	.6	-	-
NOT REPORTED.	-	-	-	-	-	-	-	-	-
VEHICLE ACQUISITION									
PURCHASED NEW.	72.1	3.2	15.6	16.0	26.3	8.6	3.8	.5	1.3
PURCHASED USED.	105.9	3.2	47.1	30.3	22.0	3.4	2.3	.4	.3
LEASED FROM SOMEONE ELSE.	1.6	.3	-	.1	-	-	.4	.1	1.0
LEASED TO SOMEONE ELSE.	2.5	.5	.2	.1	1.1	.3	.2	.2	.4
NOT REPORTED.	3.0	.8	1.7	.3	.9	-	-	-	.1
LEASE CHARACTERISTICS²									
LEASED WITHOUT DRIVER.	1.8	.5	.2	.1	.7	.3	.4	.1	.1
LEASED WITH DRIVER.	1.9	.4	.1	-	.3	-	.1	.3	1.1
LESSEE:									
PRIVATE.	3.8	.6	.2	.2	1.1	.3	.5	.3	1.2
GOVERNMENT.	-	-	-	-	-	-	-	-	-
LENGTH OF LEASE:									
LESS THAN 30 DAYS.	1.2	.4	.1	-	.6	.2	.1	.1	.1
30 DAYS TO 1 YEAR.	1.3	.2	.1	-	.1	.1	.1	.1	1.0
1 TO 3 YEARS.	.8	.4	-	-	.3	-	.3	.1	.1
MORE THAN 3 YEARS.	.5	.1	-	.1	.1	-	.1	.1	-
PROVISIONS OF LEASE:									
FINANCING.	.6	.3	-	-	.4	-	.1	.1	-
MAINTENANCE.	1.1	.4	.1	-	.6	.2	.1	-	-
PROCUREMENT AND SALE.	-	-	-	-	-	-	-	-	-
OPERATOR CLASSIFICATION									
NOT FOR HIRE:									
PRIVATE OWNER OR INDIVIDUAL.	174.8	.9	62.9	45.6	47.8	11.6	6.0	.5	.5
FOR HIRE INTERSTATE:									
EXEMPT CARRIER.	1.4	.4	.1	.3	.3	.1	.1	.1	.5
CONTRACT CARRIER.	.6	.1	-	-	-	-	.1	.1	.5
COMMON CARRIER.	2.0	.2	.1	.1	.1	-	.1	.3	1.3
FOR HIRE INTRASTATE:									
LOCAL CARGO.	2.5	.6	.8	.7	.6	.1	.2	.1	-
FOR HIRE DAILY RENTAL.	.7	.3	-	-	.3	.3	.1	-	-
NOT REPORTED.	.5	.3	.5	-	-	-	-	-	-
PRODUCTS CARRIED									
FARM PRODUCTS.	49.5	2.7	26.1	11.3	7.9	2.7	.9	.2	.5
LIVE ANIMALS.	12.0	1.6	3.0	3.5	4.4	.5	.4	.1	.2
MINING PRODUCTS.	.1	-	-	-	-	-	-	-	-
LOGS AND OTHER FOREST PRODUCTS.	.7	.4	.3	-	.3	.1	-	-	-
PROCESSED FOODS.	4.1	.8	.5	.7	1.0	.2	.6	.2	1.0
TEXTILE MILL PRODUCTS.	.3	.3	-	-	-	.3	-	-	-
BUILDING MATERIALS.	9.6	1.4	3.1	2.8	2.2	1.2	.3	-	-
HOUSEHOLD GOODS.	.8	.5	.2	-	.3	.3	-	.1	-
FURNITURE OR HARDWARE.	.4	.3	-	.3	-	-	-	-	-
PAPER PRODUCTS.	.6	.4	-	-	.3	-	.3	-	-
CHEMICALS.	1.3	.5	.2	.3	.1	.3	.3	-	-
PETROLEUM.	3.6	.7	.9	.7	1.3	.4	.1	.1	.1
PRIMARY METAL PRODUCTS.	-	-	-	-	-	-	-	-	-
FABRICATED METAL PRODUCTS.	.9	.5	.3	.6	-	-	-	-	-
MACHINERY, EXCEPT ELECTRICAL.	1.4	.4	.7	.1	.2	.1	.1	.1	.1
ELECTRICAL MACHINERY.	1.8	.7	.3	.6	.9	-	-	-	-
TRANSPORTATION EQUIPMENT.	2.2	.7	.2	.3	1.0	.6	.1	-	-
SCRAP, REFUSE, OR GARBAGE.	4.5	1.0	3.1	.7	.7	-	-	-	-
MIXED CARGOES.	7.3	1.3	2.0	.9	2.8	.1	.7	.1	.8
CRAFTSMAN'S EQUIPMENT.	7.7	1.4	.9	1.8	2.4	.9	1.7	-	-
SPECIAL EQUIPMENT.	1.5	.5	.6	.7	.2	.9	-	-	-
PERSONAL TRANSPORTATION.	69.8	3.2	20.4	21.2	23.1	4.0	1.2	-	-
OTHER.	1.6	.6	.6	.3	.3	.6	-	-	-
NOT REPORTED.	1.0	.4	1.0	-	-	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

Table 5. Trucks by Annual Miles: 1977—Con.

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	ANNUAL MILES ¹						
			LESS THAN 5,000	5,000 TO 9,999	10,000 TO 19,999	20,000 TO 29,999	30,000 TO 49,999	50,000 TO 74,999	75,000 OR MORE
HAZARDOUS MATERIALS CARRIED									
HAZARDOUS MATERIALS CARRIED	2.3	.2	.3	.3	.4	.3	.1	.1	.8
LESS THAN 25 PERCENT OF TIME	1.3	.2	.1	.1	.1	.1	.1	.1	.8
25 TO 49 PERCENT OF TIME	-	-	-	-	-	-	-	-	-
50 TO 74 PERCENT OF TIME	-	-	-	-	-	-	-	-	-
75 TO 100 PERCENT OF TIME . . . . .	.9	.2	.1	.1	.3	.3	.1	.1	-
NO PERCENT REPORTED . . . . .	.1	.1	.1	-	-	-	-	-	-
NO HAZARDOUS MATERIAL CARRIED	155.9	2.2	52.4	41.1	43.0	11.2	5.7	.8	1.7
NOT REPORTED	24.3	2.2	11.7	5.4	5.8	.5	.7	.1	.2
TRUCK FLEET SIZE³									
1	115.8	3.0	39.5	32.0	33.7	7.0	3.1	.2	.3
2 TO 5	51.3	2.8	21.5	11.1	12.6	3.5	2.0	.3	.4
6 TO 19	10.4	1.4	3.1	2.3	2.1	1.5	.9	.3	.3
20 OR MORE	5.0	.8	.3	1.4	.8	.1	.5	.3	1.7
MILES PER GALLON									
LESS THAN 5	13.8	.9	4.6	2.3	1.9	.8	1.0	.7	2.5
5 TO 6.9	8.4	.9	3.9	1.5	1.7	.5	.5	.2	.1
7 TO 8.9	18.6	1.7	9.4	4.8	3.0	1.1	.2	.1	-
9 TO 11.9	45.3	2.9	12.8	10.7	15.6	4.1	2.1	-	-
12 TO 14.9	39.4	2.8	10.0	13.1	12.4	2.6	1.2	-	-
15 TO 19.9	36.0	2.8	16.3	8.7	8.4	2.0	.6	-	-
20 OR MORE	7.7	1.4	2.8	1.5	2.3	.6	.6	-	-
NOT REPORTED	13.4	1.7	4.8	4.1	3.8	.3	.4	-	.1
EQUIPMENT TYPE									
TRANSMISSION:									
MANUAL	114.5	3.2	49.4	30.3	22.7	5.0	3.8	1.0	2.4
AUTOMATIC	61.2	3.2	13.2	14.5	24.1	6.7	2.6	-	-
SEMIAUTOMATIC . . . . .	.2	.1	.1	.1	-	-	-	-	-
NOT REPORTED	6.7	1.2	1.7	1.9	2.4	.3	-	.1	.3
BRAKING SYSTEM:									
HYDRAULIC ⁴	148.4	2.4	54.2	39.0	40.2	9.3	5.4	.2	.1
AIR	8.7	.8	2.5	1.0	1.3	.4	.5	.8	2.3
OTHER ⁴	17.0	2.0	5.4	4.8	4.8	1.8	.3	-	-
NOT REPORTED	8.4	1.4	2.4	1.8	2.9	.6	.3	-	.3
ANTI-WHEEL-LOCK DEVICE ²	12.1	1.7	1.1	3.7	4.2	1.6	.4	.3	.8
POWER STEERING ²	74.5	3.2	13.7	18.3	29.2	8.6	3.7	.5	.5
AIR CONDITIONING ²	33.4	2.6	5.6	4.6	14.3	3.3	2.8	.6	2.0
FUEL CONSERVATION EQUIPMENT²									
RADIAL TIRES	34.3	2.7	5.1	7.3	13.1	4.8	2.3	.5	1.2
DRAG REDUCTION DEVICES . . . . .	.3	.1	-	-	-	-	.1	-	.2
VARIABLE SPEED FAN	18.3	2.1	3.1	3.0	7.7	2.7	1.3	.1	.3
FUEL EFFICIENT ENGINE	9.3	1.5	1.6	2.3	3.9	.5	.7	.2	.2
AXLE OR DRIVE RATIO CHANGE	20.7	1.5	10.8	4.1	2.9	1.7	.7	.3	.2
NOT REPORTED	115.1	3.1	45.2	32.7	27.7	4.8	3.1	.3	1.2
MAINTENANCE²									
MAINTENANCE PERFORMED ON--									
ENGINE	26.4	2.3	8.1	7.9	5.3	2.2	1.5	.3	.9
TRANSMISSION	15.8	1.9	4.2	4.7	4.1	1.1	.9	.2	.5
BRAKING SYSTEM	21.3	2.1	7.5	4.2	4.7	2.3	2.0	.3	.4
REAR AXLE AND DIFFERENTIAL	8.2	1.3	1.5	2.3	2.3	.2	1.3	.2	.4
NONE OF THE ABOVE	112.7	3.2	42.6	27.2	29.9	7.6	3.5	.4	1.4
NOT REPORTED	-	-	-	-	-	-	-	-	-
MAINTENANCE PERFORMED BY ⁵ --									
SELF OR OWN REPAIR SHOP	23.2	2.2	9.2	7.1	4.5	.7	.8	.4	.5
TRUCK DEALER	10.9	1.5	1.2	2.2	4.1	1.8	1.1	.1	.3
FACTORY BRANCH . . . . .	.5	.3	-	-	-	.3	.1	-	-
LEASING COMPANY	1.3	.6	.7	.3	.3	-	-	-	.1
INDEPENDENT GARAGE	22.0	2.1	5.8	6.8	6.3	1.3	1.3	.1	.3
OTHER	1.7	.6	.7	.6	.3	-	-	-	-
NOT REPORTED	126.4	3.0	47.5	30.2	35.2	8.0	3.4	.5	1.5
ENGINE TYPE AND SIZE									
ENGINE:									
GASOLINE	176.5	.5	63.8	46.2	48.4	11.8	5.9	.3	.1
DIESEL	5.7	.5	.4	.5	.7	.2	.5	.8	2.6
LPG OR OTHER . . . . .	.4	.1	.2	-	.1	.1	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-
CYLINDERS:									
4	7.7	1.4	3.0	1.2	2.6	.6	.3	-	-
6	54.5	2.9	29.1	12.7	7.6	1.7	1.2	.5	1.7
8	119.9	3.1	31.9	32.8	38.9	9.8	5.0	.5	1.0
OTHER	-	-	-	-	-	-	-	-	-
NOT REPORTED . . . . .	.4	.3	.4	-	-	-	-	-	-
CUBIC INCH DISPLACEMENT:									
GASOLINE ENGINES	4.1	1.1	1.2	.6	1.7	.3	.3	-	-
LESS THAN 200	31.3	2.4	16.4	8.3	5.1	.6	.9	-	-
200 TO 299	23.0	2.1	8.8	6.2	5.6	1.8	.4	.1	.1
300 TO 349	60.0	3.1	14.1	16.0	22.2	5.5	2.0	.1	-
350 TO 399	13.6	1.8	1.1	3.7	4.8	1.9	2.0	.1	-
400 OR MORE	44.6	2.8	22.2	11.4	8.9	1.7	.4	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

Table 5. Trucks by Annual Miles: 1977—Con.

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	ANNUAL MILES ¹						
			LESS THAN 5,000	5,000 TO 9,999	10,000 TO 19,999	20,000 TO 29,999	30,000 TO 49,999	50,000 TO 74,999	75,000 OR MORE
ENGINE TYPE AND SIZE--CON.									
CUBIC INCH DISPLACEMENT--CON.									
DIESEL ENGINES									
LESS THAN 400	.2	.1	.1	-	-	-	-	-	.1
400 TO 599	.9	.3	.1	-	-	.3	-	.1	.3
600 TO 799	.6	.1	-	.2	.1	-	-	.1	.2
800 OR MORE	.6	.1	-	-	-	-	-	-	.2
NOT REPORTED	3.3	.3	.2	.3	.2	.1	.3	.4	1.7
OTHER ENGINES									
LESS THAN 400	.3	.1	.1	-	.1	.1	-	-	-
400 OR MORE	.1	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-
TRUCK TYPE AND AXLE ARRANGEMENT									
SINGLE-UNIT TRUCKS ²									
2 AXLES	174.1	.5	62.8	45.4	48.4	11.5	5.7	.2	.1
3 AXLES	3.1	.3	1.2	.7	.4	.3	.3	.1	-
OTHER	.1	-	.1	-	-	-	-	-	-
TRUCK-TRACTOR COMBINATIONS ³									
SINGLE TRAILERS									
3 AXLES	.2	.1	.1	.1	-	-	-	-	-
4 AXLES	1.2	.3	.1	.5	.1	.1	.1	.1	.1
5 AXLES	3.4	.3	.1	.1	.2	.1	.3	.5	2.5
6 AXLES	.1	.1	-	-	-	-	-	.1	-
OTHER	.1	-	-	-	-	-	-	-	-
DOUBLE TRAILERS									
5 AXLES	-	-	-	-	-	-	-	-	-
6 AXLES	.1	.1	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-	-
TRIPLE TRAILERS									
7 AXLES	-	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-	-
TRAILER NOT SPECIFIED	.2	.1	-	-	-	-	-	.1	-
POWERED AXLES ⁴									
1	134.9	2.9	53.6	36.0	32.9	7.9	4.0	.4	.2
2	41.0	2.8	7.8	9.6	14.8	3.5	2.2	.7	2.4
3	.1	.1	.1	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
NOT REPORTED	6.5	1.3	3.0	1.2	1.5	.6	.3	-	-
CAB TYPE ⁵									
CAB FORWARD OF ENGINE	.9	.2	.4	.2	.2	-	-	-	.1
CAB OVER ENGINE	4.5	.3	.4	.4	.3	.1	.3	.6	2.3
SHORT HOOD CONVENTIONAL	5.9	.4	3.6	.8	.7	.4	.3	.1	.1
MEDIUM HOOD CONVENTIONAL	15.4	.9	8.7	2.9	1.9	.8	.6	.3	.1
LONG HOOD CONVENTIONAL	11.0	.9	7.7	1.9	.6	.7	.1	.1	.1
OTHER	.2	.1	.1	-	-	.1	-	-	-
NOT REPORTED	.1	-	.1	-	-	-	-	-	-
CAB WITH SLEEPER UNIT	3.3	.3	.1	.1	.2	.1	.3	.6	1.9
PICKUPS, PANELS, VANS, MULTISTOPS, OR WALK-INS									
TOTAL	144.7	1.1	43.5	40.6	45.5	9.9	5.2	-	-
PICKUPS	125.1	2.4	39.5	35.3	38.2	8.1	4.0	-	-
PANELS OR VANS	18.4	2.1	3.7	4.9	6.9	1.7	1.2	-	-
MULTISTOPS OR WALK-INS	1.1	.5	.4	.3	.4	-	.1	-	-
DRIVING WHEELS ⁶									
4-WHEEL DRIVE	35.0	2.8	6.7	8.9	14.4	3.2	1.8	-	-
2-WHEEL DRIVE	90.9	3.2	29.5	26.6	26.4	5.2	3.2	-	-
NOT REPORTED	18.7	2.1	7.3	5.0	4.6	1.5	.3	-	-
AXLES ON VEHICLE ⁷									
2	114.9	2.7	33.5	32.7	36.8	7.8	4.1	-	-
3	-	-	-	-	-	-	-	-	-
NOT REPORTED	29.8	2.6	10.0	7.8	8.7	2.0	1.2	-	-
CAMPER BODY OR SPECIAL CAMPING EQUIPMENT ⁸									
SLIDE-IN CAMPER	5.2	1.2	1.2	2.0	1.7	-	.3	-	-
PICKUP SHELL COVER	17.1	2.1	2.4	4.3	6.9	2.6	.9	-	-
CAMPER BODY	1.8	.7	.9	.3	.3	.3	-	-	-
NOT REPORTED	120.5	2.6	39.0	33.9	36.5	7.0	4.1	-	-

NOTE: DATA RELATE TO STATE OF REGISTRATION, WHICH IN MOST CASES IS BASE OF OPERATION; HOWEVER, SOME TRUCKS REGISTERED IN A GIVEN STATE ARE ACTUALLY BASED IN ANOTHER STATE BECAUSE THEY OPERATE INTERSTATE OR THEIR OPERATORS HAVE MOVED TO ANOTHER STATE. DETAILED FIGURES MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING. STANDARD ERROR IS AN ACTUAL NUMBER; FOR DISCUSSION OF PROPER USE AND INTERPRETATION, SEE INTRODUCTION.

- ESTIMATE IS LESS THAN 50 TRUCKS.

¹WHEN NO RESPONSE WAS OBTAINED FOR ANNUAL MILES, DATA WERE IMPUTED.

²DETAIL DOES NOT ADD TO TOTALS BECAUSE ITEMS WERE NOT APPLICABLE OR MULTIPLE RESPONSES WERE POSSIBLE.

³WHEN NO RESPONSE WAS OBTAINED, ONE TRUCK WAS IMPUTED BASED ON BODY TYPE OF SAMPLED VEHICLE.

⁴BECUSE SOME "LIGHT" TRUCK RESPONDENTS WERE UNFAMILIAR WITH BRAKING SYSTEM TERMINOLOGY, A LARGE PROPORTION OF DATA FOR "OTHER" SHOULD BE FOR "HYDRAULIC" (E.G., DATA ON POWER ASSISTED BRAKES, DISC BRAKES, VACUUM-HYDRAULIC, ETC.).

⁵DATA RELATE ONLY TO SPECIFIED EQUIPMENT ON WHICH MAINTENANCE WAS PERFORMED.

⁶PICKUPS, PANELS, VANS, AND MULTISTOPS ARE NOT INCLUDED.

Table 6. Trucks by Range of Operations: 1977

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	RANGE OF OPERATION			
			LOCAL	SHORT RANGE	LONG RANGE	OFF THE ROAD
TOTAL TRUCKS	182.6	-	146.6	14.5	4.9	16.6
STANDARD ERROR	-	-	2.4	1.7	.7	1.7
MAJOR USE						
AGRICULTURE	75.1	3.1	59.4	2.1	.7	12.9
FORESTRY AND LUMBERING . . . . .	.4	.3	.4	-	-	.1
MINING AND QUARRYING . . . . .	.2	.1	.1	-	-	.8
CONSTRUCTION	8.7	1.3	6.3	1.3	.3	-
MANUFACTURING . . . . .	.9	.3	.6	.1	.1	-
WHOLESALE TRADE	2.8	.7	1.8	.7	.3	-
RETAIL TRADE	8.8	1.3	6.6	2.0	.2	-
FOR HIRE TRANSPORTATION	3.7	.3	.9	.5	2.3	-
UTILITIES	1.6	.6	1.5	.1	-	.1
SERVICES	7.9	1.4	6.6	1.1	.1	-
DAILY RENTAL . . . . .	.7	.3	.3	.1	.3	-
PERSONAL TRANSPORTATION	68.8	3.2	59.6	6.4	.9	2.0
OTHER	2.1	.7	1.9	.1	.1	.3
NOT IN USE	1.1	.4	.7	-	-	-
NOT REPORTED	-	-	-	-	-	-
BODY TYPE						
PICKUP	125.1	2.4	106.0	7.5	.9	10.7
PANEL OR VAN	18.4	2.1	14.6	3.2	.6	.1
MULTISTOP OR WALK-IN	1.1	.1	.1	-	-	.7
PLATFORM WITH ADDED DEVICES	3.1	.5	2.1	.3	-	-
LOW BOY OR DEPRESSED CENTER . . . . .	.5	.3	.3	.1	.1	3.2
OTHER PLATFORM	15.3	.8	10.8	1.0	.4	-
CATTLE RACK	7.2	.5	5.2	.5	.3	1.2
INSULATED NONREFRIGERATED VAN . . . . .	.5	.1	.1	.2	.3	-
INSULATED REFRIGERATED VAN	1.4	.2	.2	.2	.9	.1
FURNITURE VAN . . . . .	.5	.3	.4	-	-	-
OPEN TOP VAN . . . . .	.2	.1	-	.1	-	-
OTHER ENCLOSED VANS	2.0	.2	.4	.3	1.2	.1
BEVERAGE . . . . .	.2	.1	.1	.1	-	-
UTILITY . . . . .	.5	.3	.5	-	-	-
WINCH OR CRANE . . . . .	.5	.3	.4	.1	-	-
WRECKER . . . . .	.2	.1	.2	-	-	-
POLE OR LOGGING	-	-	-	-	-	-
AUTO TRANSPORT	-	-	-	-	-	-
BOAT TRANSPORT	-	-	-	.1	-	-
MOBILE HOME PULLER . . . . .	.2	.1	-	-	-	-
GARBAGE HAULER:						
FRONT LOADER	-	-	-	-	-	-
REAR LOADER . . . . .	.2	.1	.2	-	-	-
ROLL OFF	-	-	-	-	-	-
NOT SPECIFIED	-	-	-	-	-	-
DUMP	1.8	.2	1.3	.2	-	.3
TANK FOR LIQUIDS	2.6	.4	1.9	.4	-	.3
TANK FOR DRY BULK . . . . .	.3	.1	.2	-	.1	-
CONCRETE MIXER:						
FRONT DISCHARGER	-	-	-	-	-	-
REAR DISCHARGER . . . . .	.4	.1	.4	-	-	-
NOT SPECIFIED . . . . .	.1	-	.1	-	-	-
OTHER . . . . .	.1	.1	.1	-	-	-
NOT REPORTED	-	-	-	-	-	-
ANNUAL MILES ¹						
LESS THAN 5,000	64.4	3.0	52.1	1.8	.1	10.4
5,000 TO 9,999	46.7	2.9	40.7	2.2	.5	3.5
10,000 TO 19,999	49.2	3.0	42.2	4.4	.9	1.6
20,000 TO 29,999	12.0	1.7	8.8	2.3	.3	.7
30,000 TO 49,999	6.5	1.2	2.6	3.0	.5	.4
50,000 TO 74,999	1.1	.2	.2	.4	.4	.1
75,000 OR MORE	2.7	.3	.1	.4	2.2	-
BASE OF OPERATION						
PERCENTAGE OF MILES TRAVELED IN BASE-OF-OPERATION STATE:						
LESS THAN 25 PERCENT	3.6	.6	-	.7	2.9	-
25 TO 49 PERCENT	3.0	.8	1.5	.9	.6	-
50 TO 74 PERCENT	10.7	1.5	5.6	3.3	1.0	.8
75 TO 100 PERCENT	164.9	1.8	139.4	9.6	.4	15.5
NOT REPORTED . . . . .	.4	.1	.1	-	-	.3
VEHICLE SIZE						
LIGHT	150.1	.9	125.5	10.9	1.5	12.2
MEDIUM	16.1	1.0	11.9	1.2	.4	2.7
LIGHT-HEAVY	7.5	.4	5.8	.6	-	1.1
HEAVY-HEAVY	8.9	.4	3.5	1.8	3.0	.6

SEE FOOTNOTES AT END OF TABLE.

Table 6. Trucks by Range of Operations: 1977—Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	RANGE OF OPERATION			
			LOCAL	SHORT RANGE	LONG RANGE	OFF THE ROAD
GROSS WEIGHT						
6,000 OR LESS	128.3	2.3	108.7	9.0	.9	9.7
6,001 TO 10,000	21.9	2.1	16.8	1.9	.6	2.5
10,001 TO 14,000	5.2	.8	4.1	.5	.1	.5
14,001 TO 16,000	4.2	.4	3.3	.3	.1	.5
16,001 TO 19,500	6.7	.6	4.4	.4	.2	1.6
19,501 TO 26,000	7.5	.4	5.8	.6	—	1.1
26,001 TO 33,000	2.2	.2	1.5	.3	.1	.2
33,001 TO 40,000	1.3	.2	.8	.3	.1	.1
40,001 TO 50,000	1.4	.2	.8	.2	.2	.2
50,001 TO 60,000 . . . . .	.5	.1	.1	.1	.2	.1
60,001 TO 80,000	3.5	.3	—	.8	2.5	—
80,001 TO 100,000 . . . . .	.1	—	—	.1	—	—
100,001 TO 130,000	—	—	—	—	—	—
130,001 AND OVER	—	—	—	—	—	—
NOT REPORTED	—	—	—	—	—	—
YEAR MODEL						
1978	—	—	—	—	—	—
1977	12.7	1.7	9.6	.8	1.0	1.2
1976	17.7	2.0	14.4	2.6	.4	.2
1975	19.9	1.6	7.9	2.3	.7	.1
1974	17.7	2.0	13.2	2.2	.7	1.7
1973	16.3	1.9	14.0	.9	.5	.9
1972	10.6	1.6	8.0	1.4	.2	1.0
1971	7.5	1.3	6.0	.5	.1	.9
1970	10.3	1.5	7.2	1.5	.5	1.1
1969	6.0	1.1	4.8	.3	.4	.5
1968	8.4	1.4	7.5	.1	.3	.5
1967	9.6	1.5	8.0	.4	.1	1.1
PRE-1967	54.9	2.8	45.9	1.5	.1	7.5
NOT REPORTED	—	—	—	—	—	—
VEHICLE ACQUISITION						
PURCHASED NEW	72.1	3.2	56.8	7.8	2.5	5.1
PURCHASED USED	105.9	3.2	87.4	6.3	1.3	11.0
LEASED FROM SOMEONE ELSE	1.6	.3	.1	.4	1.1	—
LEASED TO SOMEONE ELSE	2.5	.5	1.4	.3	.7	—
NOT REPORTED	3.0	.8	2.4	.1	—	.5
LEASE CHARACTERISTICS²						
LEASED WITHOUT DRIVER	1.8	.5	1.0	.5	.3	—
LEASED WITH DRIVER	1.9	.4	.5	.2	1.2	—
LESSEE:						
PRIVATE	3.8	.6	1.5	.7	1.5	—
GOVERNMENT	—	—	—	—	—	—
LENGTH OF LEASE:						
LESS THAN 30 DAYS	1.2	.4	.7	.1	.3	—
30 DAYS TO 1 YEAR	1.3	.2	.2	.1	1.1	—
1 TO 3 YEARS . . . . .	.8	.4	.3	.4	.1	—
MORE THAN 3 YEARS . . . . .	.5	.1	.3	.1	.1	—
PROVISIONS OF LEASE:						
FINANCING . . . . .	.6	.3	.4	.1	—	—
MAINTENANCE	1.1	.4	.7	.1	.3	—
PROCUREMENT AND SALE	—	—	—	—	—	—
OPERATOR CLASSIFICATION						
NOT FOR HIRE:						
PRIVATE OWNER OR INDIVIDUAL	174.8	.9	143.4	13.0	2.1	16.3
FOR HIRE INTRASTATE:						
EXEMPT CARRIER	1.4	.4	—	.8	.6	—
CONTRACT CARRIER . . . . .	.6	.1	—	.1	.5	—
COMMON CARRIER	2.0	.2	.4	.2	1.4	—
FOR HIRE INTRASTATE:						
LOCAL CARTAGE	2.5	.6	2.1	.3	—	—
FOR HIRE DAILY RENTAL . . . . .	.7	.3	.3	.1	.3	.1
NOT REPORTED . . . . .	.5	.3	.4	—	—	.1
PRODUCTS CARRIED						
FARM PRODUCTS	49.5	2.7	38.4	1.2	.5	9.5
LIVE ANIMALS	12.0	1.6	9.8	.7	.5	1.0
MINING PRODUCTS . . . . .	.1	—	—	—	—	—
LOGS AND OTHER FOREST PRODUCTS . . . . .	.7	.4	.7	—	—	—
PROCESSED FOODS	4.1	.8	2.2	.8	—	—
TEXTILE MILL PRODUCTS . . . . .	.3	.3	—	.3	1.1	.1
BUILDING MATERIALS	9.6	1.4	7.2	1.0	—	—
HOUSEHOLD GOODS . . . . .	.8	.3	.2	—	.6	1.4
FURNITURE OR HARDWARE . . . . .	.4	.3	.3	.1	—	—
PAPER PRODUCTS . . . . .	.6	.4	.3	.3	—	—
CHEMICALS	1.3	.5	.9	.3	—	.1
PETROLEUM	3.6	.7	2.5	.3	.1	.7
PRIMARY METAL PRODUCTS	—	—	—	—	—	—
FABRICATED METAL PRODUCTS . . . . .	.9	.5	.9	—	—	—
MACHINERY, EXCEPT ELECTRICAL	1.4	.4	.9	.3	—	—
ELECTRICAL MACHINERY	1.8	.7	1.2	.6	—	—
TRANSPORTATION EQUIPMENT	2.2	.7	1.6	.4	—	—
SCRAP, REFUSE, OR GARBAGE	4.5	1.0	4.4	—	—	—
MIXED CARGOES	7.3	1.3	5.6	.5	.8	.3
CRAFTSMAN'S EQUIPMENT	7.7	1.4	6.2	1.2	.5	—
SPECIAL EQUIPMENT	1.5	.5	1.3	.2	.1	—
PERSONAL TRANSPORTATION	69.8	3.2	60.0	6.4	.6	.1
OTHER	1.6	.6	1.3	.1	—	2.9
NOT REPORTED	1.0	.4	.7	—	—	.1

SEE FOOTNOTES AT END OF TABLE.

Table 6. Trucks by Range of Operations: 1977—Con.

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	RANGE OF OPERATION			
			LOCAL	SHORT RANGE	LONG RANGE	OFF THE ROAD
HAZARDOUS MATERIALS CARRIED						
HAZARDOUS MATERIALS CARRIED	2.3	.2	1.0	.3	.9	.2
LESS THAN 25 PERCENT OF TIME	1.3	.2	.3	.1	.9	—
25 TO 49 PERCENT OF TIME	—	—	—	—	—	—
50 TO 74 PERCENT OF TIME	—	—	—	—	—	—
75 TO 100 PERCENT OF TIME . . . . .	.9	.2	.6	.2	—	.1
NO PERCENT REPORTED . . . . .	.1	.1	.1	—	—	.1
NO HAZARDOUS MATERIAL CARRIED	155.9	2.2	125.3	12.9	3.8	13.9
NOT REPORTED	24.3	2.2	20.4	1.3	.1	2.5
TRUCK FLEET SIZE³						
1	115.8	3.0	97.7	8.6	2.0	7.5
2 TO 5	51.3	2.8	38.7	3.8	.5	6.4
6 TO 19	10.4	1.4	8.0	1.4	.4	.6
20 OR MORE	5.0	.8	2.2	.7	2.0	.1
MILES PER GALLON						
LESS THAN 5	13.8	.9	8.0	1.6	2.9	1.3
5 TO 6.9	8.4	.9	5.5	1.3	.4	1.2
7 TO 8.9	18.6	1.7	14.9	1.1	.3	2.2
9 TO 11.9	45.3	2.9	38.1	3.2	—	4.0
12 TO 14.9	39.4	2.8	31.9	3.8	.3	3.4
15 TO 19.9	36.0	2.8	30.9	1.7	.6	2.8
20 OR MORE	7.7	1.4	6.5	1.2	—	.1
NOT REPORTED	13.4	1.7	10.8	.6	.3	1.7
EQUIPMENT TYPE						
TRANSMISSION:						
MANUAL	114.5	3.2	90.7	8.6	3.4	11.8
AUTOMATIC	61.2	3.2	51.0	5.8	1.1	3.3
SEMIAUTOMATIC	—	—	—	—	—	—
NOT REPORTED	6.7	1.2	4.8	.1	.3	1.5
BRAKING SYSTEM:						
HYDRAULIC ⁴	148.4	2.4	122.6	11.1	1.7	13.1
AIR	8.7	.8	3.8	1.7	2.6	.6
OTHER ⁴	17.0	2.0	13.7	1.0	.3	2.0
NOT REPORTED	8.4	1.4	6.5	.7	.3	.9
ANTI-WHEEL-LOCK DEVICE ²	12.1	1.7	8.1	2.7	.9	.4
POWER STEERING	74.5	3.2	58.5	8.7	1.7	5.6
AIR CONDITIONING ²	33.4	2.6	24.6	4.6	3.2	1.0
FUEL CONSERVATION EQUIPMENT²						
RADIAL TIRES	34.3	2.7	24.8	5.6	1.6	2.3
DRAG REDUCTION DEVICES	—	—	—	—	—	—
VARIABLE SPEED FAN	18.3	2.1	13.6	3.4	.6	.7
FUEL EFFICIENT ENGINE	9.3	1.5	6.2	1.8	.2	1.1
AXLE OR DRIVE RATIO CHANGE	20.7	1.5	15.4	2.3	.3	2.7
NOT REPORTED	115.1	3.1	96.2	5.8	2.7	10.4
MAINTENANCE²						
MAINTENANCE PERFORMED ON--						
ENGINE	26.4	2.3	21.0	1.8	1.3	2.3
TRANSMISSION	15.8	1.9	11.6	1.2	.8	2.1
BRAKING SYSTEM	21.3	2.1	17.4	1.5	.6	1.8
REAR AXLE AND DIFFERENTIAL	8.2	1.3	6.5	.8	.7	.2
NONE OF THE ABOVE	112.7	3.2	90.0	10.1	2.9	9.6
NOT REPORTED	—	—	—	—	—	—
MAINTENANCE PERFORMED BY--						
SELF OR OWN REPAIR SHOP	23.2	2.2	18.6	1.2	.6	2.7
TRUCK DEALER	10.9	1.5	7.9	1.5	.7	.8
FACTORY BRANCH . . . . .	.5	.3	.1	—	.1	.3
LEASING COMPANY	1.3	.6	1.3	—	—	—
INDEPENDENT GARAGE	22.0	2.1	17.7	2.3	.6	1.5
OTHER	1.7	.6	1.0	—	—	.6
NOT REPORTED	126.4	3.0	102.9	9.8	3.0	10.7
ENGINE TYPE AND SIZE						
ENGINE:						
GASOLINE	176.5	.5	145.2	13.0	1.9	16.3
DIESEL	5.7	.5	1.1	1.4	2.9	.3
LPG OR OTHER . . . . .	.4	.1	.3	—	—	—
NOT REPORTED	—	—	—	—	—	—
CYLINDERS:						
4	7.7	1.4	6.5	.9	—	.3
6	59.5	2.9	43.5	3.5	2.2	5.4
8	119.9	3.1	96.4	10.1	2.7	10.7
OTHER	—	—	—	—	—	—
NOT REPORTED . . . . .	.4	.3	.3	—	—	.1
CUBIC INCH DISPLACEMENT:						
GASOLINE ENGINES	4.1	1.1	3.5	.6	—	—
LESS THAN 200	31.3	2.4	26.5	1.9	—	2.9
200 TO 299	23.0	2.1	19.4	1.0	.7	1.8
300 TO 349	60.0	3.1	48.0	5.7	.6	5.7
350 TO 399	13.6	1.8	11.2	1.6	.3	.5
400 OR MORE	44.6	2.8	36.5	2.4	.3	5.4
NOT REPORTED	—	—	—	—	—	—

SEE FOOTNOTES AT END OF TABLE.

Table 6. Trucks by Range of Operations: 1977—Con.
(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	RANGE OF OPERATION			
			LOCAL	SHORT RANGE	LONG RANGE	OFF THE ROAD
ENGINE TYPE AND SIZE--CON.						
CUBIC INCH DISPLACEMENT--CON.						
DIESEL ENGINES						
LESS THAN 400	.2	.1	.1	-	.1	-
400 TO 599	.9	.3	.2	.5	.3	-
600 TO 799	.6	.1	.3	.2	.2	.1
800 OR MORE	.6	.1	.1	.1	.3	-
NOT REPORTED	3.3	.3	.3	.6	2.1	.2
OTHER ENGINES						
LESS THAN 400	.3	.1	.3	-	-	-
400 OR MORE	.1	-	.1	-	-	-
NOT REPORTED	-	-	-	-	-	-
TRUCK TYPE AND AXLE ARRANGEMENT						
SINGLE-UNIT TRUCKS:						
2 AXLES	174.1	.5	143.4	12.7	1.9	16.1
3 AXLES	3.1	.3	2.3	.5	-	.3
OTHER	.1	-	.1	-	-	-
TRUCK-TRACTOR COMBINATIONS:						
SINGLE TRAILERS						
3 AXLES	.2	.1	.1	.1	-	-
4 AXLES	1.2	.3	.5	.4	.2	-
5 AXLES	3.4	.3	.2	.6	2.5	.1
6 AXLES	.1	.1	-	.1	-	-
OTHER	.1	-	-	.1	-	-
DOUBLE TRAILERS						
5 AXLES	-	-	-	-	-	-
6 AXLES	.1	.1	-	-	.1	-
OTHER	-	-	-	-	-	-
TRIPLE TRAILERS						
7 AXLES	-	-	-	-	-	-
OTHER	-	-	-	-	-	-
TRAILER NOT SPECIFIED	.2	.1	-	-	.1	.1
POWERED AXLES:						
1	134.9	2.9	110.9	9.9	1.5	12.5
2	41.0	2.8	31.5	3.3	3.4	2.9
3	.1	.1	.1	-	-	-
4	-	-	-	-	-	-
NOT REPORTED	6.5	1.3	4.2	1.2	-	1.2
CAB TYPE ⁶						
CAB FORWARD OF ENGINE	.9	.2	.6	.1	-	.1
CAB OVER ENGINE	4.5	.3	.8	.8	2.7	.2
SHORT HOOD CONVENTIONAL	5.9	.4	3.9	.7	.1	1.1
MEDIUM HOOD CONVENTIONAL	15.4	.9	11.2	1.6	.4	2.2
LONG HOOD CONVENTIONAL	11.0	.9	8.2	.5	.1	2.2
OTHER	.2	.1	.1	-	.1	-
NOT REPORTED	.1	-	.1	-	-	-
CAB WITH SLEEPER UNIT	3.3	.3	.2	.6	2.4	.1
PICKUPS, PANELS, VANS, MULTISTOPS, OR WALK-INS						
TOTAL	144.7	1.1	121.6	10.8	1.5	10.7
PICKUPS	125.1	2.4	106.0	7.5	.9	10.7
PANELS OR VANS	18.4	2.1	14.6	3.2	.6	.1
MULTISTOPS OR WALK-INS	1.1	.5	1.1	.1	-	-
DRIVING WHEELS:						
4-WHEEL DRIVE	35.0	2.8	29.5	2.3	.6	2.6
2-WHEEL DRIVE	90.9	3.2	77.0	6.8	.9	6.2
NOT REPORTED	18.7	2.1	15.1	1.8	-	1.9
AXLES ON VEHICLE:						
2	114.9	2.7	95.0	9.4	.9	9.6
3	-	-	-	-	-	-
NOT REPORTED	29.8	2.6	26.7	1.4	.6	1.1
CAMPER BODY OR SPECIAL CAMPING EQUIPMENT:						
SLIDE-IN CAMPER	5.2	1.2	4.0	1.2	-	-
PICKUP SHELL COVER	17.1	2.1	14.5	1.7	-	.9
CAMPER BODY	1.8	.7	1.2	.6	-	-
NOT REPORTED	120.5	2.6	101.9	7.3	1.5	9.8

NOTE: DATA RELATE TO STATE OF REGISTRATION, WHICH IN MOST CASES IS BASE OF OPERATION; HOWEVER, SOME TRUCKS REGISTERED IN A GIVEN STATE ARE ACTUALLY BASED IN ANOTHER STATE BECAUSE THEY OPERATE INTERSTATE OR THEIR OPERATORS HAVE MOVED TO ANOTHER STATE. DETAILED FIGURES MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING. STANDARD ERROR IS AN ACTUAL NUMBER; FOR DISCUSSION OF PROPER USE AND INTERPRETATION, SEE INTRODUCTION.

- ESTIMATE IS LESS THAN 50 TRUCKS.

¹WHEN NO RESPONSE WAS OBTAINED FOR ANNUAL MILES, DATA WERE IMPUTED.

²DETAIL DOES NOT ADD TO TOTALS BECAUSE ITEMS WERE NOT APPLICABLE OR MULTIPLE RESPONSES WERE POSSIBLE.

³WHEN NO RESPONSE WAS OBTAINED, ONE TRUCK WAS IMPUTED BASED ON BODY TYPE OF SAMPLED VEHICLE.

⁴BECAUSE SOME "LIGHT" TRUCK RESPONDENTS WERE UNFAMILIAR WITH BRAKING SYSTEM TERMINOLOGY, A LARGE PROPORTION OF DATA FOR "OTHER" SHOULD BE FOR "HYDRAULIC" (E.G., DATA ON POWER ASSISTED BRAKES, DISC BRAKES, VACUUM-HYDRAULIC, ETC.).

⁵DATA RELATE ONLY TO SPECIFIED EQUIPMENT ON WHICH MAINTENANCE WAS PERFORMED.

⁶PICKUPS, PANELS, VANS, AND MULTISTOPS ARE NOT INCLUDED.

Table 7. Trucks by Truck Type and Axle Arrangement: 1977
(Thousands)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCK TYPE AND AXLE ARRANGEMENT											
	SINGLE-UNIT TRUCKS			TRUCK-TRACTOR COMBINATIONS				TRAILERS				
	TOTAL TRUCKS	STANDARD ERROR	TOTAL	AXLES	AXLES	OTHER	TOTAL	AXLES	AXLES	OTHER	AXLES	OTHER
TOTAL TRUCKS	182.6	-	177.3	174.1	3.1	.1	5.3	.2	1.2	3.4	.1	-
STANDARD ERROR	-	-	.4	.5	.3	-	.4	.1	.3	.3	.1	-
MAJOR USE												
AGRICULTURE, FORESTRY AND LUMBERING	75.1	3.1	74.0	72.6	1.3	.1	1.1	.1	.1	.5	.1	-
MINING AND QUARRYING	1.4	.3	1.4	.4	.1	.1	.1	.1	.1	.1	.1	-
CONSTRUCTION	8.7	1.3	8.4	7.4	1.0	.1	.2	.1	.1	.1	.1	-
MANUFACTURING	2.9	.3	2.8	2.4	2.3	.1	.4	.1	.1	.2	.1	-
WHOLESALE TRADE	2.8	.3	2.8	2.6	2.3	.2	.4	.1	.1	.2	.1	-
RETAIL TRADE	8.8	1.3	8.6	8.4	2.2	.2	2.8	.1	.2	2.5	.1	-
FOR HIRE TRANSPORTATION	3.7	.3	3.7	3.7	.7	.1	.1	.1	.1	.1	.1	-
UTILITIES	1.6	.4	1.6	1.6	1.6	.1	.1	.1	.1	.1	.1	-
DAILY RENTAL	7.9	1.4	7.7	7.6	1.6	.1	.1	.1	.1	.1	.1	-
PERSONAL TRANSPORTATION	68.8	7.3	68.8	68.8	68.8	.1	.1	.1	.1	.1	.1	-
OTHER	2.1	.2	2.0	2.0	2.0	.1	.1	.1	.1	.1	.1	-
NOT IN USE	1.1	.4	1.0	1.0	1.0	.1	.1	.1	.1	.1	.1	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
BODY TYPE												
PICKUP	125.1	2.4	125.1	125.1	125.1	.1	.1	.1	.1	.1	.1	-
PANEL OR VAN	18.4	2.1	18.4	18.4	18.4	.1	.1	.1	.1	.1	.1	-
MULTISTOP OR WALK-IN	1.1	.5	1.1	1.1	1.1	.1	.1	.1	.1	.1	.1	-
PLATFORM WITH ADDED DEVICE	3.1	.5	3.1	3.1	3.1	.1	.1	.1	.1	.1	.1	-
LOW BOY OR DEPRESSED CENTER	15.3	.8	14.6	13.8	13.8	.1	.1	.1	.1	.1	.1	-
OTHER PLATFORM	17.2	5.5	16.3	15.9	15.9	.4	.1	.1	.1	.1	.1	-
CATTLE RACK	1.5	.1	1.5	1.5	1.5	.1	.1	.1	.1	.1	.1	-
INSULATED NONREFRIGERATED VAN	1.4	.3	1.3	1.4	1.4	.1	.1	.1	.1	.1	.1	-
REFRIGERATED VAN	1.5	.5	1.5	1.5	1.5	.4	.1	.1	.1	.1	.1	-
FURNITURE VAN	-	-	-	-	-	-	-	-	-	-	-	-
OPEN TOP VAN	2.0	.2	1.2	.9	.9	.6	.1	.1	.1	.1	.1	-
OTHER ENCLOSED VANS	1.5	.5	1.5	1.5	1.5	.5	.5	.5	.5	.5	.5	-
BEVERAGE	-	-	-	-	-	-	-	-	-	-	-	-
UTILITY	-	-	-	-	-	-	-	-	-	-	-	-
WINCH OR CRANE	-	-	-	-	-	-	-	-	-	-	-	-
RECKER, LOGGING	-	-	-	-	-	-	-	-	-	-	-	-
POLE OR LOGGING	-	-	-	-	-	-	-	-	-	-	-	-
AUTO TRANSPORT	-	-	-	-	-	-	-	-	-	-	-	-
BOAT TRANSPORT	-	-	-	-	-	-	-	-	-	-	-	-
MOBILE HOME PULLER	-	.2	-	-	-	-	.1	.1	.1	.1	.1	-
GARBAGE HAULER	-	-	-	-	-	-	-	-	-	-	-	-
FRONT LOADER	-	-	-	-	-	-	.1	.1	.1	.1	.1	-
REAR LOADER	-	-	-	-	-	-	-	-	-	-	-	-
ROLL OFF	-	-	-	-	-	-	-	-	-	-	-	-
NOT SPECIFIED	-	-	-	-	-	-	-	-	-	-	-	-
DUMP TANK FOR LIQUIDS	1.8	1.2	1.7	1.7	1.7	.1	.1	.1	.1	.1	.1	-
TANK FOR DRY BULK	2.6	1.4	2.3	2.3	2.3	.2	.2	.2	.2	.2	.2	-
CONCRETE MIXER	1.5	.5	1.5	1.5	1.5	.1	.1	.1	.1	.1	.1	-
FRONT DISCHARGER	-	-	-	-	-	-	-	-	-	-	-	-
REAR DISCHARGER	-	-	-	-	-	-	-	-	-	-	-	-
NOT SPECIFIED	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
ANNUAL MILES: ¹	64.4	3.0	64.4	64.4	64.4	.1	.1	.1	.1	.1	.1	-
LESS THAN 5,000	46.7	2.9	46.7	46.7	46.7	.1	.1	.1	.1	.1	.1	-
5,000 TO 9,999	49.2	3.0	49.2	49.2	49.2	.1	.1	.1	.1	.1	.1	-
10,000 TO 19,999	12.0	1.7	12.0	12.0	12.0	.1	.1	.1	.1	.1	.1	-
20,000 TO 29,999	6.5	1.2	6.5	6.5	6.5	.1	.1	.1	.1	.1	.1	-
30,000 TO 49,999	11.8	1.8	11.8	11.8	11.8	.1	.1	.1	.1	.1	.1	-
50,000 TO 74,999	16.0	2.0	16.0	16.0	16.0	.1	.1	.1	.1	.1	.1	-
75,000 OR MORE	1.1	.1	1.1	1.1	1.1	.1	.1	.1	.1	.1	.1	-

SEE FOOTNOTES AT END OF TABLE.

Table 7. Trucks by Truck Type and Axle Arrangement: 1977—Con.
(Thousands)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	TRUCK TYPE AND AXLE ARRANGEMENT						NOT RE-PORTED	
			SINGLE-UNIT TRUCKS			TRUCK-TRACTOR COMBINATIONS				
			SINGLE TRAILERS	DOUBLE TRAILERS	TRIPLE TRAILERS	5 AXLES	6 AXLES	OTHER		
RANGE OF OPERATION										
LOCAL OR SHORT RANGE (200 MILES OR LESS)	146.6	2.4	145.8	143.4	.1	.9	.1	.1	—	—
LONG RANGE (MORE THAN 200 MILES)	14.5	1.7	13.2	12.7	.5	1.3	.6	.1	.1	.1
OFF-THE-ROAD	4.9	.7	1.9	1.9	.1	2.0	.2	.1	—	—
NOT REPORTED	16.2	1.7	16.1	15.8	.3	3.1	.1	.1	—	—
—	.4	.1	.3	.3	.1	—	—	—	—	—
BASE OF OPERATION										
PERCENTAGE OF MILES TRAVELED IN BASE-OF-OPERATION STATE:										
LESS THAN 25 PERCENT	3.6	.6	1.5	1.5	.1	2.1	.2	.9	—	—
25 TO 49 PERCENT	30.7	.8	2.4	2.3	.4	1.6	.1	.5	—	—
50 TO 74 PERCENT	10.7	1.5	9.7	9.5	.1	1.0	.1	.2	—	—
75 TO 100 PERCENT	164.9	1.8	163.4	160.7	.2	1.6	.2	.6	—	—
NOT REPORTED	.4	.1	.3	.3	.1	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
VEHICLE SIZE										
LIGHT	150.1	.9	150.1	150.1	.1	—	—	—	—	—
MEDIUM	16.1	1.0	15.8	15.4	.3	1.3	.1	.1	—	—
LIGHT-HEAVY	7.5	1.4	7.4	6.6	.8	1.1	.1	.1	—	—
HEAVY-HEAVY	8.9	.4	4.0	2.0	2.0	1.6	.2	.4	—	—
GROSS WEIGHT	—	—	—	—	—	—	—	—	—	—
6,000 OR LESS	126.3	2.3	126.2	128.2	—	—	—	—	—	—
6,001 TO 10,000	21.9	2.1	21.8	21.8	—	—	—	—	—	—
10,001 TO 14,000	5.2	.8	5.2	5.2	—	—	—	—	—	—
14,001 TO 16,000	4.2	.4	4.2	4.2	—	—	—	—	—	—
16,001 TO 19,500	6.7	.6	6.4	6.1	—	—	—	—	—	—
19,501 TO 26,000	7.5	.4	7.4	6.6	—	—	—	—	—	—
26,001 TO 33,000	2.2	.2	2.0	1.6	—	—	—	—	—	—
33,001 TO 40,000	2.3	.2	2.1	1.6	—	—	—	—	—	—
40,001 TO 50,000	1.4	.2	1.3	1.3	—	—	—	—	—	—
50,001 TO 60,000	.5	.1	.5	.1	—	—	—	—	—	—
60,001 TO 80,000	3.5	.3	—	—	—	—	—	—	—	—
80,001 TO 100,000	.1	—	—	—	—	—	—	—	—	—
100,001 TO 130,000	—	—	—	—	—	—	—	—	—	—
130,001 AND OVER	—	—	—	—	—	—	—	—	—	—
NOT REPORTED	—	—	—	—	—	—	—	—	—	—
YEAR MODEL	—	—	—	—	—	—	—	—	—	—
1978	—	—	—	—	—	—	—	—	—	—
1977	—	—	—	—	—	—	—	—	—	—
1976	—	—	—	—	—	—	—	—	—	—
1975	—	—	—	—	—	—	—	—	—	—
1974	—	—	—	—	—	—	—	—	—	—
1973	—	—	—	—	—	—	—	—	—	—
1972	—	—	—	—	—	—	—	—	—	—
1971	—	—	—	—	—	—	—	—	—	—
1970	—	—	—	—	—	—	—	—	—	—
1969	—	—	—	—	—	—	—	—	—	—
1968	—	—	—	—	—	—	—	—	—	—
1967	—	—	—	—	—	—	—	—	—	—
PRE-1967	—	—	—	—	—	—	—	—	—	—
NOT REPORTED	—	—	—	—	—	—	—	—	—	—
VEHICLE ACQUISITION	—	—	—	—	—	—	—	—	—	—
PURCHASED NEW	72.1	3.2	70.1	68.5	.1	2.0	.1	.6	—	—
PURCHASED USED	105.9	3.3	103.8	102.3	.5	2.1	.1	.7	—	—
LEASED FROM SOMEONE ELSE	1.6	.4	.4	.4	.1	1.1	.1	.1	—	—
LEASED TO SOMEONE ELSE	2.5	.5	1.7	1.5	.3	.8	.1	.1	—	—
NOT REPORTED	3.0	.8	3.0	3.0	.1	—	—	—	—	—

SEE FOOTNOTES AT END OF TABLE.

Table 7. Trucks by Truck Type and Axle Arrangement: 1977—Con.
(Thousands)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCK TYPE AND AXLE ARRANGEMENT									
	SINGLE-UNIT TRUCKS					TRUCK-TRACTOR COMBINATIONS				
	SINGLE TRAILERS			DOUBLE TRAILERS		TRIPLE TRAILERS		NOT RE- PORTED		
TOTAL TRUCKS ¹	STANDARD ERROR	TOTAL	AXLES ²	AXLES ³	OTHER	TOTAL	AXLES ⁴	AXLES ⁵	OTHER	7 AXLES OTHER
LEASE CHARACTERISTICS ²										
LEASED WITHOUT DRIVER	1.8	.4	1.6	1.4	.2					
LEASED WITH DRIVER	1.9	.4	.5	.3	.1					
LESSOR	3.8	.6	2.2	1.8	.3					
PRIVATE	-	-	-	-	-					
GOVERNMENT	-	-	-	-	-					
LENGTH OF LEASE:										
LESS THAN 30 DAYS	1.2	.4	1.0	.9	.1					
30 DAYS TO 1 YEAR	1.5	.2	.1	.1	.1					
1 TO 3 YEARS	.8	.1	.6	.6	.1					
MORE THAN 3 YEARS	.5	.1	.3	.2	.1					
PROVISIONS OF LEASE:										
FINANCING	1.6	.3	.5	.4	.2					
MAINTENANCE	1.4	.4	.9	.9	.1					
PROCUREMENT AND SALE	-	-	-	-	-					
OPERATOR CLASSIFICATION										
NOT FOR HIRE:										
PRIVATE OWNER OR INDIVIDUAL	174.8	.9	172.7	170.1	.2					
FOR HIRE, INTRASTATE:										
EXEMPT CARRIER	1.4	.4	.6	.7	.1					
CONTRACT CARRIER	1.6	.1	.1	.1	.1					
COMMON CARRIER	2.0	.2	.3	.3	.1					
FOR HIRE, INTRASTATE:										
LOCAL CARRIAGE	2.5	.6	2.3	2.0	.3					
FOR HIRE DAILY RENTAL:										
NOT REPORTED	.5	.3	.5	.5	.1					
PRODUCTS CARRIED										
FARM PRODUCTS	49.5	2.7	48.7	47.5	.1					
LIVE ANIMALS	12.0	1.6	11.2	10.9	.3					
MINING PRODUCTS	-	-	.1	.1	.1					
LOGS AND OTHER FOREST PRODUCTS	.1	.7	.4	.7	.6					
PROCESSED FOODS	4.1	.1	.8	2.8	.1					
TEXTILE MILL PRODUCTS	1.3	.3	.3	.3	.2					
BUILDING MATERIALS	9.6	1.4	9.4	8.2	.2					
HOUSEHOLD GOODS	1.8	.3	.8	.8	.1					
FURNITURE OR HARDWARE	.4	.3	.3	.3	.1					
PAPER PRODUCTS	.6	.4	.6	.6	.1					
CHEMICALS	1.3	.5	1.2	1.2	.1					
PETROLEUM	3.6	.7	3.2	3.2	.1					
PRIMARY METAL PRODUCTS	-	-	-	-	-					
FABRICATED METAL PRODUCTS	.9	.5	.9	.9	.1					
MACHINERY, EXCEPT ELECTRICAL	1.4	.4	1.0	.9	.1					
ELECTRICAL MACHINERY	1.8	.7	1.8	1.8	.1					
TRANSPORTATION EQUIPMENT	2.2	.7	2.0	2.0	.2					
MIXED CARGOS, REFUSE, OR GARBAGE	4.5	1.0	4.5	4.4	.1					
CRAFTSMAN'S EQUIPMENT	7.3	1.3	6.5	6.2	.1					
SPECIAL EQUIPMENT	1.5	.5	1.5	1.4	.1					
PERSONAL TRANSPORTATION	69.8	3.2	69.8	69.8	1.5					
OTHER	1.6	.6	1.5	1.5	.1					
NOT REPORTED	1.0	.4	1.0	.9	.1					
HAZARDOUS MATERIALS CARRIED										
HAZARDOUS MATERIALS CARRIED:										
LESS THAN 25 PERCENT OF TIME	2.3	.2	1.1	1.1	.1					
25 TO 49 PERCENT OF TIME	1.3	.2	.2	.2	.1					
50 TO 74 PERCENT OF TIME	-	-	-	-	-					
75 TO 100 PERCENT OF TIME	.9	.2	.7	.7	.1					
NO PERCENT REPORTED	-	-	-	-	-					
NO HAZARDOUS MATERIAL CARRIED	155.9	2.2	152.1	149.4	.1					
NOT REPORTED	24.3	2.2	24.1	23.7	.4					

SEE FOOTNOTES AT END OF TABLE.

Table 7. Trucks by Truck Type and Axle Arrangement: 1977—Con.
(Thousands)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TRUCK FLEET SIZE ¹	TRUCK TYPE AND AXLE ARRANGEMENT									
		SINGLE-UNIT TRUCKS			TRUCK-TRACTOR COMBINATIONS				TRAILERS		
		TOTAL TRUCKS	STANDARD ERROR	TOTAL	Axes ²	Axes ³	OTHER	TOTAL	Axes ⁴	Axes ⁵	OTHER
MILES PER GALLON											
LESS THAN 5.	1.2 TO 5.	115.8	3.0	115.2	114.8	1.4	.1	6	.1	.3	.1
5 TO 6.9.	51.3	2.8	50.2	48.5	1.7	.1	1.2	.1	.7	.1	.1
7 TO 8.9.	10.4	1.4	9.3	8.7	.6	.1	1.2	.1	.5	.1	.1
9 TO 11.9.	5.0	.8	2.6	2.2	.4	.1	2.4	.1	2.0	.1	.1
12 TO 14.9.											
15 TO 19.9.											
20 OR MORE.											
NOT REPORTED.											
EQUIPMENT TYPE											
TRANSMISSION:											
MANUAL.	114.5	3.2	109.7	106.9	2.7	.1	4.8	.2	1.2	.1	.1
AUTOMATIC.	61.2	3.2	61.2	60.9	.3	.1	1.2	.1	.1	.1	.1
SEMIAUTOMATIC.											
NOT REPORTED.											
BRAKING SYSTEM:											
AIR HYDRAULIC.	6.7	1.2	6.3	6.2	.2	.1	.5	.1	.4	.1	.1
AIR.											
OTHER. ⁴											
NOT REPORTED.											
ANTI-WHEEL-LOCK DEVICE ² .											
POWER STEERING ² .											
AIR CONDITIONING.											
FUEL CONSERVATION EQUIPMENT ²											
RADIAL TIRES.	34.3	2.7	32.5	31.7	.7	.1	1.8	.2	1.4	.1	.1
DRAG REDUCTION DEVICES.	18.3	2.1	17.1	17.1	.1	.1	1.3	.1	.2	.1	.1
VARIABLE SPEED FAN.	18.3	2.1	17.8	17.7	.1	.1	1.5	.1	.3	.1	.1
FUEL-EFFICIENT ENGINE.	9.3	1.5	8.8	8.5	.2	.1	1.5	.1	.3	.1	.1
AXLE OR DRIVE RATIO CHANGE.	20.7	1.5	19.8	18.6	.2	.1	2.9	.1	2.7	.1	.1
NOT REPORTED.	115.1	3.1	112.4	111.2	.1	.1	2.7	.1	2.5	.1	.1
Maintenance ²											
Maintenance performed on—											
ENGINE.	26.4	2.3	24.6	24.0	.6	.1	1.7	.1	1.0	.1	.1
TRANSMISSION.	15.8	1.9	14.9	14.5	.5	.1	1.8	.1	1.5	.1	.1
Braking system	21.3	2.1	20.6	20.0	.5	.1	1.3	.1	1.1	.1	.1
REAR AXLE AND DIFFERENTIAL.	8.2	1.3	10.5	7.1	.4	.1	2.6	.1	2.5	.1	.1
NONE OF THE ABOVE.	112.7	3.2	110.1	108.3	.7	.1	2.6	.1	1.9	.1	.1
Maintenance performed by—											
SELF OR OWN REPAIR SHOP.											
TRUCK DEALER.	23.2	2.2	21.9	21.2	.7	.1	1.2	.1	1.5	.1	.1
FACTORY BRANCH.	10.9	1.5	10.4	10.2	.2	.1	1.1	.1	1.1	.1	.1
LEASED COMPANY.	1.3	.3	1.3	1.3	.1	.1	1.1	.1	1.1	.1	.1
INDEPENDENT GARAGE.	22.0	2.1	21.4	21.1	.4	.1	1.6	.1	1.3	.1	.1
OTHER.	1.7	.6	1.6	1.6	.1	.1	1.5	.1	1.5	.1	.1
NOT REPORTED.	126.4	3.0	123.5	121.7	.1	.1	2.9	.1	2.1	.1	.1
Engine type and size											
ENGINE:											
GASOLINE.	176.5	.5	175.6	173.0	2.4	.1	4.9	.1	5	.1	.1
DIESEL.	5.7	.1	5.3	5.7	.6	.1	4.4	.1	5.2	.1	.1
LPG OR OTHER.	.4	.1	.4	.4	.1	.1	—	.1	—	.1	.1
NOT REPORTED.											

SEE FOOTNOTES AT END OF TABLE.

Table 7. Trucks by Truck Type and Axle Arrangement: 1977—Con.
(Thousands)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	ENGINE TYPE AND SIZE--CON.	TRUCK TYPE AND AXLE ARRANGEMENT									
		SINGLE-UNIT TRUCKS			TRUCK-TRACTOR COMBINATIONS						
		TOTAL TRUCKS	STANDARD ERROR	TOTAL	AXLES	2 AXLES	3 AXLES	4 AXLES	5 AXLES	6 AXLES	OTHER
CYLINDERS:											
4.		7.7	1.4	7.7	7.7	6	1	3	2.3	1	.4
6.		54.5	2.9	51.7	51.7	2.4	.1	.9	1.1	.4	.1
8.		119.9	3.1	117.5	114.9	4	1	1	1	1	1
OTHER		—	—	—	—	—	—	—	—	—	—
NOT REPORTED		—	.4	—	—	—	—	—	—	—	—
CUBIC INCH DISPLACEMENT:											
GASOLINE ENGINES:											
LESS THAN 200		4.1	1.1	4.1	4.1	1	—	—	—	—	—
200 TO 299		21.3	2.4	21.3	21.3	4.1	—	—	—	—	—
300 TO 349		23.0	2.1	22.6	22.6	4.4	—	—	—	—	—
350 TO 399		60.0	3.1	59.9	58.7	1.2	.1	1	1	1	.2
400 OR MORE		13.6	1.8	13.6	12.6	12.6	—	—	—	—	—
NOT REPORTED		44.6	2.8	44.5	44.2	.3	.1	.1	.1	.1	.1
DIESEL ENGINES:											
LESS THAN 400		1.2	.1	1.2	1.1	.1	—	—	—	—	—
400 TO 599		.9	.1	.9	.8	.2	—	—	—	—	—
600 TO 799		.6	.1	.5	.4	.1	—	—	—	—	—
800 OR MORE		.5	.1	.5	.4	.1	—	—	—	—	—
NOT REPORTED		5.3	.3	5.3	5.2	.1	—	—	—	—	—
OTHER ENGINES:											
LESS THAN 100		.3	.1	.3	.3	.1	—	—	—	—	—
400 OR MORE		.1	—	.1	.1	—	—	—	—	—	—
NOT REPORTED		—	—	—	—	—	—	—	—	—	—
CAB TYPE:											
CAB FORWARD OF ENGINE		.9	.2	.8	.7	.1	—	—	—	—	—
CAB OVER ENGINE		4.5	1.3	5.4	5.4	.8	.2	—	—	—	—
SHORT HOOD CONVENTIONAL		5.9	1.4	14.8	13.3	.6	.1	—	—	—	—
MEDIUM HOOD CONVENTIONAL		15.4	.9	10.4	9.7	1.5	—	—	—	—	—
LONG HOOD CONVENTIONAL		11.0	.9	—	—	.7	—	—	—	—	—
OTHER		.2	.1	.2	.2	.1	—	—	—	—	—
NOT REPORTED		.1	—	.1	.1	.1	—	—	—	—	—
CAB WITH SLEEPER UNIT		2.3	.3	—	—	.1	—	—	—	—	—

SEE FOOTNOTES AT END OF TABLE.

Table 7. Trucks by Truck Type and Axle Arrangement: 1977—Con.

(THOUSANDS)

VEHICULAR AND OPERATIONAL CHARACTERISTICS	TOTAL TRUCKS	STANDARD ERROR	TRUCK TYPE AND AXLE ARRANGEMENT						NOT REPORTED	
			SINGLE-UNIT TRUCKS			TRUCK-TRACTOR COMBINATIONS				
			TOTAL	AXLES ²	OTHER	TOTAL	AXLES ³	AXLES ⁴		
PICKUPS, PANELS, VANS, MULTISTOPS, OR WALK-INS										
TOTAL	144.7	1.1	144.7	144.7						
PICKUPS	125.1	2.4	125.1	125.1						
PANELS OR VANS	16.4	2.1	18.4	18.4						
MULTISTOPS OR WALK-INS	1.1	.5	1.1	1.1						
DRIVING WHEELS:										
4-WHEEL DRIVE	35.0	2.8	35.0	35.0						
2-WHEEL DRIVE	90.9	3.2	90.9	90.9						
NOT REPORTED	18.7	2.1	18.7	18.7						
AXLES ON VEHICLE:										
2.	114.9	2.7	114.9	114.9						
3.	—	—	—	—						
NOT REPORTED	29.8	2.6	29.8	29.8						
CAMPER BODY OR SPECIAL CAMPING EQUIPMENT:										
SIDE-IN CAMPER	5.2	1.2	5.2	5.2						
PICKUP SHELL COVER	1.1	2.1	1.1	1.1						
CAMPER BODY	1.8	.7	1.8	1.8						
NOT REPORTED	120.5	2.6	120.5	120.5						

NOTE: DATA RELATE TO STATE OF REGISTRATION¹ WHICH IN MOST CASES IS BASE OF OPERATION; HOWEVER, SOME TRUCKS REGISTERED IN A GIVEN STATE ARE ACTUALLY BASED IN ANOTHER STATE BECAUSE THEY OPERATE INTERSTATE OR THEIR OPERATORS HAVE MOVED TO ANOTHER STATE. DETAILED FIGURES MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING. STANDARD ERROR IS AN ACTUAL NUMBER FOR DISCUSSION OF PROPER USE AND INTERPRETATION; SEE INTRODUCTION.

* ESTIMATE IS LESS THAN 50 TRUCKS.

¹ WHEN NO RESPONSE WAS OBTAINED FOR ANNUAL MILES, DATA WERE IMPUTED.

² DETAIL DOES NOT ADD TO TOTALS BECAUSE ITEMS WERE NOT APPLICABLE OR MULTIPLE RESPONSES WERE POSSIBLE.

³ WHEN NO RESPONSE WAS OBTAINED, ONE TRUCK WAS IMPUTED BASED ON BODY TYPE OF SAMPLED VEHICLE.

⁴ BECAUSE SOME "LIGHT" TRUCK RESPONDENTS WERE UNFAMILIAR WITH BRAKING SYSTEM TERMINOLOGY, A LARGE PROPORTION OF DATA FOR "OTHER" SHOULD BE FOR "HYDRAULIC" (E.G., DATA ON POWER ASSISTED BRAKES, DISC BRAKES, VACUUM-HYDRAULIC, ETC.).

⁵ DATA RELATE ONLY TO SPECIFIED EQUIPMENT ON WHICH MAINTENANCE WAS PERFORMED.

⁶ PICKUPS, PANELS, VANS, AND MULTISTOPS ARE NOT INCLUDED.

APPENDIX A. Survey Form

DUE DATE 15 DAYS AFTER RECEIPT OF FORM

FORM TC-200
(1-21-77)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Form Approved: O.M.B. Number 41-376075

TRUCK INVENTORY AND USE SURVEY

1977 CENSUS OF TRANSPORTATION

INSTRUCTIONS

In correspondence pertaining to this report, please include State and license number and the control number shown in the address label. Return the form in the enclosed preaddressed envelope not later than 15 days after receipt.

RETURN TO

Bureau of the Census
1201 East Tenth Street
Jeffersonville, Indiana 47132

(Please correct any error in name and address, including ZIP code)

NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this control number

Section A - VEHICLE IDENTIFICATION AND USE					
Item 1 - VEHICLE IDENTIFICATION (Please correct any errors or omissions in the identification of the vehicle)					
Make	Year of model	Registered weight or capacity	State	License number	Vehicle identification number
NOTE: Please complete this form whether or not you are still the owner of the vehicle identified in item 1.					
Item 2 - OWNERSHIP OF VEHICLE					
Are you still the owner (or license holder) or lessor of this vehicle? 1 <input type="checkbox"/> Yes Month _____ Year _____ 2 <input type="checkbox"/> No → When did you sell, trade, or otherwise dispose of it? _____					
Item 3 - ACQUISITION OF VEHICLE					
a. How did you acquire this vehicle? 1 <input type="checkbox"/> Purchased new Month _____ Year _____ 2 <input type="checkbox"/> Purchased used Month _____ Year _____ 3 <input type="checkbox"/> Leased from someone else Month _____ Year _____					
b. When did you acquire this vehicle? _____					
c. During past 12 months was this vehicle leased or rented to others? 1 <input type="checkbox"/> Yes Month _____ Year _____ 2 <input type="checkbox"/> No Month _____ Year _____					
d. How was this vehicle leased or rented? 1 <input type="checkbox"/> Without driver Month _____ Year _____ 2 <input type="checkbox"/> With driver (or as owner operator) Month _____ Year _____					
Item 4 - LEASE CHARACTERISTICS					
a. Was the lessee – 1 <input type="checkbox"/> Private (non-government)? 2 <input type="checkbox"/> Unit of government?					
b. What is the length of lease or rental agreement? 1 <input type="checkbox"/> Less than 30 days Month _____ Year _____ 2 <input type="checkbox"/> 30 days to 1 year Month _____ Year _____ 3 <input type="checkbox"/> 1-3 years Month _____ Year _____ 4 <input type="checkbox"/> More than 3 years Month _____ Year _____					
c. Does your agreement include – 1 <input type="checkbox"/> Financing? Month _____ Year _____ 2 <input type="checkbox"/> Maintenance? Month _____ Year _____ 3 <input type="checkbox"/> Procurement and sale? Month _____ Year _____					
Item 5 - CLASSIFICATION OF OPERATOR					
Mark (X) the box which is the most appropriate for your type of operation Not for hire – 1 <input type="checkbox"/> Private owner or an individual, or company which just transports its own materials or merchandise. Includes an individual or a business such as a bakery, oil company, or soft drink bottler. For hire – 2 <input type="checkbox"/> Interstate - exempt carrier (not required to have an I.C.C. certificate because only exempt commodities are transported, such as: fresh agricultural products, fish, newspapers, or air freight haulage) 3 <input type="checkbox"/> Interstate - I.C.C. certified contract carrier (carrying the goods of other than the owner by individual contract or agreement) 4 <input type="checkbox"/> Interstate - I.C.C. certified common carrier (offering service to the general public, usually operating a regularly scheduled service between established terminals over a more or less regular route) 5 <input type="checkbox"/> Intrastate - operating only within the State of registration (including local cartage, hauling between locations in the same town, city, or suburb)					
Item 6 - MAJOR USE OF THE TRUCK OR COMBINATION					
How was the vehicle mostly used during the past 12 months? Mark (X) ONE box If the vehicle was leased to someone else mark (X) ONE box that describes the business of the person or company to whom you leased the vehicle the longest time. 01 <input type="checkbox"/> On farm or ranch, or other agricultural activity 02 <input type="checkbox"/> In forestry or lumbering 03 <input type="checkbox"/> In mining or quarrying 04 <input type="checkbox"/> In construction - buildings, or roads 05 <input type="checkbox"/> In manufacturing, refining, or processing 06 <input type="checkbox"/> In wholesale trade 07 <input type="checkbox"/> In retail trade 08 <input type="checkbox"/> For hire transportation - mixed or general cargo 09 <input type="checkbox"/> In utilities - telephone, electric, gas, etc. 10 <input type="checkbox"/> In services - hotel, automobile repair, laundry, funeral services, advertising, plumbing, refuse collection, repair, etc. 11 <input type="checkbox"/> Daily rental or short term lease, without driver 12 <input type="checkbox"/> For personal transportation - used in place of an automobile to go from home to work for outdoor recreation (camping, etc.) 13 <input type="checkbox"/> Other - If none of the above applies to the use you make of the vehicle, describe the main use of the vehicle here. _____					
Item 7 - PRODUCTS CARRIED					
a. Principal products carried during past 12 months Mark (X) ONE box which indicates products usually carried by this vehicle 01 <input type="checkbox"/> Farm products (crops and fruits, raw milk, etc.) 02 <input type="checkbox"/> Live animals (horses, livestock, poultry or other animals) 03 <input type="checkbox"/> Mining products 04 <input type="checkbox"/> Logs and other forest products 05 <input type="checkbox"/> Processed foods (dressed meat, beverages, dairy products, etc.) or tobacco 06 <input type="checkbox"/> Textile mill products including apparel and leather goods, etc. 07 <input type="checkbox"/> Building materials (lumber, millwork, sand, gravel, glass, concrete, etc.) 08 <input type="checkbox"/> Household goods (moving) 09 <input type="checkbox"/> Furniture or hardware (not including household goods moving) 10 <input type="checkbox"/> Paper products, including printing and publishing products 11 <input type="checkbox"/> Chemicals or related products, including drugs, paints, fertilizers, etc. 12 <input type="checkbox"/> Petroleum or petroleum products 13 <input type="checkbox"/> Primary metal products (ingots, billets, pipes, sheets, etc.) 14 <input type="checkbox"/> Fabricated metal products (except machinery and transportation equipment) 15 <input type="checkbox"/> Machinery, except electrical 16 <input type="checkbox"/> Electrical machinery, equipment, and supplies, including household appliances 17 <input type="checkbox"/> Transportation equipment (motor vehicles, trailers, boats, motorcycles, etc.) 18 <input type="checkbox"/> Scrap, refuse, or garbage 19 <input type="checkbox"/> Mixed cargoes 20 <input type="checkbox"/> Craftsman's vehicle, such as plumbers, carpenters, "traveling workshops," etc. 21 <input type="checkbox"/> Special equipment such as a crane, compressor, winch, drilling rigs, etc. 22 <input type="checkbox"/> No products carried (personal transportation) 23 <input type="checkbox"/> Other - Describe _____					
b. Secondary product carried (if applicable) Of the list above, what would you consider to be the secondary product most carried by this vehicle? _____					
Item 8 - HAZARDOUS MATERIALS					
a. Was this truck (or combination) used to haul hazardous materials during the past 12 months in quantities large enough to require a placard under the Code of Federal Regulations, Title 49, Transportation? 2 <input type="checkbox"/> No - SKIP to Item 9 1 <input type="checkbox"/> Yes - Continue with b					
b. Approximately what percent of the time was this unit used to haul hazardous materials? 1 <input type="checkbox"/> Less than 25% Month _____ Year _____ 2 <input type="checkbox"/> 25-49% Month _____ Year _____ 3 <input type="checkbox"/> 50-74% Month _____ Year _____ 4 <input type="checkbox"/> 75-100% Month _____ Year _____					
Section B - OPERATIONAL CHARACTERISTICS					
Item 9 - BASE OF OPERATION					
a. What was the principal place from which this vehicle was operated? City or town _____ County _____ State _____					
b. What percentage of the miles traveled by this vehicle was within the State named in Item 9a? 1 <input type="checkbox"/> Below 25% Month _____ Year _____ 2 <input type="checkbox"/> 25-49% Month _____ Year _____ 3 <input type="checkbox"/> 50-74% Month _____ Year _____ 4 <input type="checkbox"/> 75-100% Month _____ Year _____					
Item 10 - NUMBER OF TRUCKS, TRUCK-TRACTORS AND TRAILERS OPERATED FROM "BASE OF OPERATION"					
How many trucks, truck-tractors and trailers are you operating from base named in Item 9a? Total number _____					
a. Pickups, vans (panels), multi-stops b. Other straight trucks c. Truck-tractors d. Trailers (semi- and full trailers)					

CONTINUE ON REVERSE SIDE

APPENDIX A—Continued

Section B — OPERATIONAL CHARACTERISTICS — Con.		Section C — PHYSICAL CHARACTERISTICS — Con.																																																																																																																																																																																																							
Item 11 — AREA OF OPERATION <i>Where was this vehicle mostly operated?</i> Mark (X) ONE box only <ul style="list-style-type: none"> <input type="checkbox"/> Mostly in the local area (in or around the city and suburbs or within a short distance of the farm, factory, mine, or place vehicle is stationed) <input type="checkbox"/> Mostly over-the-road (beyond the local area) but not usually more than 200 miles one way to the most distant stop from the place vehicle is stationed <input type="checkbox"/> Mostly over-the-road trips that are usually more than 200 miles one way to the most distant stop from the place the vehicle is stationed <input type="checkbox"/> Mostly off-the-road operations as is usually associated with construction and farming operations 		Item 21 — TYPE AND SIZE OF BODY <i>Indicate both body type and body size</i> <table border="1"> <thead> <tr> <th>BODY TYPE</th> <th>LENGTH OF LOAD SPACE OR CAPACITY</th> </tr> </thead> <tbody> <tr> <td>Mark (X) ONE box to describe the type of the truck or combination. If the power unit is a truck-tractor, report body type of the combination most frequently used with the power unit.</td> <td>Mark (X) ONE box to indicate length of load space or capacity. If two or more trailing units, mark (X) for combined length or capacity.</td> </tr> <tr> <td>(a)</td> <td>(b)</td> </tr> <tr> <td>01 Pickup truck</td> <td>Length of load space (Feet)</td> </tr> <tr> <td>02 Panel truck or van</td> <td>01 Less than 7 feet</td> </tr> <tr> <td>03 Multi-stop or walk-in</td> <td>02 7 and less than 10</td> </tr> <tr> <td></td> <td>03 10 and less than 13</td> </tr> <tr> <td></td> <td>04 13 and less than 16</td> </tr> <tr> <td></td> <td>05 16 and less than 20</td> </tr> <tr> <td></td> <td>06 20 and less than 28</td> </tr> <tr> <td></td> <td>07 28 and less than 36</td> </tr> <tr> <td></td> <td>08 36 and less than 41</td> </tr> <tr> <td></td> <td>09 Less than 7 feet</td> </tr> <tr> <td></td> <td>10 7 and less than 10</td> </tr> <tr> <td></td> <td>11 10 and less than 13</td> </tr> <tr> <td></td> <td>12 13 and less than 16</td> </tr> <tr> <td></td> <td>13 16 and less than 20</td> </tr> <tr> <td></td> <td>14 20 and less than 28</td> </tr> <tr> <td></td> <td>15 28 and less than 36</td> </tr> <tr> <td></td> <td>16 36 and less than 41</td> </tr> <tr> <td></td> <td>17 41 and less than 45</td> </tr> <tr> <td></td> <td>18 45 and less than 73</td> </tr> <tr> <td></td> <td>19 73 or more</td> </tr> <tr> <td></td> <td>20 Capacity (Cubic yds.)</td> </tr> <tr> <td></td> <td>21 Less than 20</td> </tr> <tr> <td></td> <td>22 20 to 25</td> </tr> <tr> <td></td> <td>23 26 and over</td> </tr> <tr> <td></td> <td>24 Capacity of dump (water level without sideboards) (Cubic yards)</td> </tr> <tr> <td></td> <td>25 Under 5</td> </tr> <tr> <td></td> <td>26 6 to 9.9</td> </tr> <tr> <td></td> <td>27 10 to 11.9</td> </tr> <tr> <td></td> <td>28 12 to 14.9</td> </tr> <tr> <td></td> <td>29 15 to 17.9</td> </tr> <tr> <td></td> <td>30 18 to 19.9</td> </tr> <tr> <td></td> <td>31 20 to 29.9</td> </tr> <tr> <td></td> <td>32 30 or more</td> </tr> <tr> <td></td> <td>33 Capacity of tank (Gallons)</td> </tr> <tr> <td></td> <td>34 Less than 1,000</td> </tr> <tr> <td></td> <td>35 1,000 to 1,999</td> </tr> <tr> <td></td> <td>36 2,000 to 2,999</td> </tr> <tr> <td></td> <td>37 3,000 to 3,999</td> </tr> <tr> <td></td> <td>38 4,000 to 5,999</td> </tr> <tr> <td></td> <td>39 6,000 to 7,999</td> </tr> <tr> <td></td> <td>40 8,000 to 11,999</td> </tr> <tr> <td></td> <td>41 12,000 or more</td> </tr> <tr> <td></td> <td>42 Capacity of dry bulk (Cubic feet)</td> </tr> <tr> <td></td> <td>43 Less than 300</td> </tr> <tr> <td></td> <td>44 300 to 599</td> </tr> <tr> <td></td> <td>45 600 to 899</td> </tr> <tr> <td></td> <td>46 900 to 1,199</td> </tr> <tr> <td></td> <td>47 1,200 to 1,499</td> </tr> <tr> <td></td> <td>48 1,500 or more</td> </tr> <tr> <td></td> <td>49 Capacity of mixer (Cubic yards)</td> </tr> <tr> <td></td> <td>50 Less than 1</td> </tr> <tr> <td></td> <td>51 1 to 6.9</td> </tr> <tr> <td></td> <td>52 6 to 12.9</td> </tr> <tr> <td></td> <td>53 12 to 18.9</td> </tr> <tr> <td></td> <td>54 18 to 24.9</td> </tr> <tr> <td></td> <td>55 24 to 30.9</td> </tr> <tr> <td></td> <td>56 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If the power unit is a truck-tractor, report body type of the combination most frequently used with the power unit.	Mark (X) ONE box to indicate length of load space or capacity. If two or more trailing units, mark (X) for combined length or capacity.	(a)	(b)	01 Pickup truck	Length of load space (Feet)	02 Panel truck or van	01 Less than 7 feet	03 Multi-stop or walk-in	02 7 and less than 10		03 10 and less than 13		04 13 and less than 16		05 16 and less than 20		06 20 and less than 28		07 28 and less than 36		08 36 and less than 41		09 Less than 7 feet		10 7 and less than 10		11 10 and less than 13		12 13 and less than 16		13 16 and less than 20		14 20 and less than 28		15 28 and less than 36		16 36 and less than 41		17 41 and less than 45		18 45 and less than 73		19 73 or more		20 Capacity (Cubic yds.)		21 Less than 20		22 20 to 25		23 26 and over		24 Capacity of dump (water level without sideboards) (Cubic yards)		25 Under 5		26 6 to 9.9		27 10 to 11.9		28 12 to 14.9		29 15 to 17.9		30 18 to 19.9		31 20 to 29.9		32 30 or more		33 Capacity of tank (Gallons)		34 Less than 1,000		35 1,000 to 1,999		36 2,000 to 2,999		37 3,000 to 3,999		38 4,000 to 5,999		39 6,000 to 7,999		40 8,000 to 11,999		41 12,000 or more		42 Capacity of dry bulk (Cubic feet)		43 Less than 300		44 300 to 599		45 600 to 899		46 900 to 1,199		47 1,200 to 1,499		48 1,500 or more		49 Capacity of mixer (Cubic yards)		50 Less than 1		51 1 to 6.9		52 6 to 12.9		53 12 to 18.9		54 18 to 24.9		55 24 to 30.9		56 30 to 36.9		57 36 to 42.9		58 42 to 48.9		59 48 to 54.9		60 54 to 60.9		61 60 to 66.9		62 66 to 72.9		63 72 to 78.9		64 78 to 84.9		65 84 to 90.9		66 90 to 96.9		67 96 to 102.9		68 102 to 108.9		69 108 to 114.9		70 114 to 120.9		71 Front discharger		72 Rear discharger		73 Capacity of concrete mixer (Cubic yards)		74 Less than 1		75 1 to 6.9		76 6 to 12.9		77 12 to 18.9		78 18 to 24.9		79 24 to 30.9		80 30 to 36.9		81 36 to 42.9		82 42 to 48.9		83 48 to 54.9		84 54 to 60.9		85 60 to 66.9		86 66 to 72.9		87 72 to 78.9		88 78 to 84.9		89 84 to 90.9		90 90 to 96.9		91 96 to 102.9		92 102 to 108.9		93 108 to 114.9		94 114 to 120.9		95 Other body types — If the above descriptions do not satisfactorily describe your vehicle, enter identifying body type and size or capacity.
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Item 12 — VEHICLE MILES AND MILES PER GALLON ANNUAL MILES a. What are the total miles this vehicle was driven during the past 12 months? (If vehicle was idled for the year, "None," or drove less than 12 months, estimate probable miles for a year.) <input type="text"/> Miles		Item 22 — POWERED AXLES <i>How many driving (powered) axles does this vehicle have? Report powered tandem axles as two axles.</i> 1 <input type="checkbox"/> One 2 <input type="checkbox"/> Two 3 <input type="checkbox"/> Three 4 <input type="checkbox"/> Four																																																																																																																																																																																																							
Item 13 — MAINTENANCE a. Was major maintenance (nonroutine) performed on the following equipment of this vehicle during the past 12 months? <input type="checkbox"/> Engine <input type="checkbox"/> Transmission <input type="checkbox"/> Braking system <input type="checkbox"/> Two axle <input type="checkbox"/> Three axle <input type="checkbox"/> Panel truck or van <input type="checkbox"/> Multi-stop or walk-in		Item 23 — VEHICLE TYPE <i>Mark (X) ONE box which best describes your vehicle</i> Single unit truck 1 <input type="checkbox"/> Two axle 2 <input type="checkbox"/> Three axle 3 <input type="checkbox"/> Other Truck tractor 4 <input type="checkbox"/> Two axle 5 <input type="checkbox"/> Three axle 6 <input type="checkbox"/> Other																																																																																																																																																																																																							
Item 14 — GROSS WEIGHT <i>Mark (X) ONE box that is nearest the maximum gross weight (empty weight of vehicle plus carried load) at which this truck or combination was operated during the past 12 months. (If straight truck report GVW, if combination, report GCW.)</i> 01 <input type="checkbox"/> 6,000 or less 08 <input type="checkbox"/> 33,001 to 40,000 02 <input type="checkbox"/> 6,001 to 10,000 09 <input type="checkbox"/> 40,001 to 50,000 03 <input type="checkbox"/> 10,001 to 14,000 10 <input type="checkbox"/> 50,001 to 60,000 04 <input type="checkbox"/> 14,001 to 16,000 11 <input type="checkbox"/> 60,001 to 80,000 05 <input type="checkbox"/> 16,001 to 19,500 12 <input type="checkbox"/> 80,001 to 100,000 06 <input type="checkbox"/> 19,501 to 26,000 13 <input type="checkbox"/> 100,001 to 130,000 07 <input type="checkbox"/> 26,001 to 33,000 14 <input type="checkbox"/> 130,001 and over		Item 24 — AXLE ARRANGEMENT OF TRAILER UNITS <i>Mark (X) ONE box that illustrates the axle arrangement of the trailer unit most frequently used with the power unit.</i> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> If none of the above applies, please indicate total number of axles and trailing units → Total axles Total trailing units																																																																																																																																																																																																							
Item 15 — TYPE AND SIZE OF ENGINE a. Type of engine <i>Mark (X) ONE box that describes the type of engine used in this vehicle.</i> 1 <input type="checkbox"/> Gasoline 2 <input type="checkbox"/> Diesel 3 <input type="checkbox"/> LPG or other		Item 25 — CAB TYPE a. Mark (X) ONE box that illustrates the cab type of the power unit. 1 <input type="checkbox"/> Cab forward of engine 2 <input type="checkbox"/> Cab over engine 3 <input type="checkbox"/> Short hood conventional 4 <input type="checkbox"/> Medium hood conventional 5 <input type="checkbox"/> Long hood conventional 6 <input type="checkbox"/> Other — Describe																																																																																																																																																																																																							
Item 16 — TYPE OF TRANSMISSION <i>Mark (X) ONE box that describes the type of transmission used in this vehicle.</i> 1 <input type="checkbox"/> Manual 2 <input type="checkbox"/> Automatic 3 <input type="checkbox"/> Semiautomatic		b. Is this cab equipped with a sleeper unit? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No																																																																																																																																																																																																							
Item 17 — TYPE OF BRAKING SYSTEM a. Mark (X) ONE box that describes the type of braking system used in this vehicle <input type="checkbox"/> Hydraulic <input type="checkbox"/> Air <input type="checkbox"/> Other b. Does this system also include the new anti-wheel lock device? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		Remarks																																																																																																																																																																																																							
Item 18 — POWER STEERING Does this vehicle have power steering? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No																																																																																																																																																																																																									
Item 19 — FUEL CONSERVATION EQUIPMENT <i>Does this vehicle have the following equipment?</i> Mark (X) ALL applicable items 1 <input type="checkbox"/> Radial tires 4 <input type="checkbox"/> Fuel efficient engine (RPM reduction, etc.) 2 <input type="checkbox"/> Drag reduction device (on top of cab) 5 <input type="checkbox"/> Axle or drive ratio change 3 <input type="checkbox"/> Variable speed fan (clutch type)		Item 26 — PERSON TO CONTACT REGARDING THIS REPORT Name Address (Number and street, city, State, ZIP code) Telephone → Area code Number Extension Fleet number of vehicle																																																																																																																																																																																																							
Item 20 — AIR CONDITIONING Is this vehicle air conditioned? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		Item 27 — CERTIFICATION <i>This report is substantially accurate and has been prepared in accordance with instructions.</i> Signature Title Date																																																																																																																																																																																																							

APPENDIX B. Estimating Unpublished Standard Errors

Standard errors are presented in tables 3 through 7 for both row and column totals. The standard error of an individual table cell may be approximated by:

$$SE(X) = SE(M) \sqrt{\frac{X(N-X)}{M(N-M)}}$$

- where: N = the total number of trucks in the State
 M = the total number of trucks in the column
 (or row)
 SE(M) = the standard error in the column (or row)
 X = the number of trucks in the cell

Although either the row or column can be used, it is usually best to use the one with the fewest trucks.

Example—The total number of trucks in the State is 500.3 thousand. There are an estimated 5.5 thousand agricultural multistops or walk-ins. The column total for "Agriculture" is 110.3 thousand trucks and the estimated standard error is 8.4 thousand. The row total for "Multistop or walk-in" is 27.7 thousand trucks and the estimated standard error is 3.1 thousand.

Using column figures:

$$SE(5.5) = 8.4 \sqrt{\frac{5.5(500.3-5.5)}{110.3(500.3-110.3)}} = 2.1$$

Using row figures:

$$SE(5.5) = 3.1 \sqrt{\frac{5.5(500.3-5.5)}{27.7(500.3-27.7)}} = 1.4$$

Since the row total of 27.7 thousand is less than the column total of 110.3 thousand, use the row figures and the approximate standard error of 1.4 thousand.

Some exceptions from this procedure will yield improved approximations of the standard error in some cells. Certain rows and columns in the tables are composed predominantly of "large" trucks. Because of the sample design, a cell within a row of large trucks will have a better approximation to the standard error when the row data is used even if the column total is smaller. The same is true for a column of large trucks. Use the smaller of the row or column when both consist of large trucks.

Columns of large trucks:

- Table 4—Light-heavy and heavy-heavy.
 Table 5—50 to 74,999 miles and 75,000 or more miles.
 Table 7—All except single-unit, 2 axles.

Rows of large trucks:

- Major Use—Manufacturing and For hire transportation.
 Body Type—All except Pickup, Panel truck or van, and Multistop or walk-in.
 Annual Miles—50 to 74,999 and 75,000 or more.
 Range of Operation—Long range (more than 200 miles).
 Gross Weight—All from 16,001 to 19,500 and over.
 Lease Characteristics—Leased with driver.
 Hazardous Materials Carried—All carrying hazardous materials.
 Miles per Gallon—Less than 5 and 5 to 6.9.
 Equipment Type, Braking system—Air.
 Engine Type and Size
 Diesel, LPG and other Engine—
 Cubic Inch Displacement, Diesel engines—All.
 Truck Type and Axle Arrangement—All except Single-unit trucks: 2 axles.
 Cab Type—All.

APPENDIX C. Estimating Standard Errors for Sums, Differences, Ratios, and Percents

Estimates of differences, sums, ratios, and percents may be derived from the data in this publication. Formulas are known for computing the estimated standard errors for all of these estimates, but the quantities needed to use the formulas are not published. This appendix gives some simple methods of approximating the standard errors of these estimates.

The difference A-B or the sum A+B of two estimates A and B in the same table is usually taken only when the estimates A and B are for cells with no trucks in common; i.e., when A and B do not overlap. The following formulas can be used:

Formula C-1

$$SE(A-B) = K_1 \sqrt{SE^2(A) + SE^2(B)}$$

Formula C-2

$$SE(A+B) = K_2 \sqrt{SE^2(A) + SE^2(B)}$$

A is assumed to be larger than B, and the constant K_1 is obtained from appendix table C-1 and the constant K_2 from appendix table C-2. In both tables, A and B are expressed as percents of the total number of trucks in the State.

Example— From a state population of 200,000 trucks, estimate A of the number of pickups is 120,000 (60%) with an estimated standard error of 20,000, and estimate B of the number of panels or vans is 40,000 (20%) with an estimated standard error of 10,000.

Using table C-1, when A is 60% and B is 20%, K_1 is 1.26.

Thus:

$$\begin{aligned} SE(A-B) &= SE(120,000 - 40,000) = SE(80,000) \\ &= 1.26 \sqrt{20,000^2 + 10,000^2} = 28,174 \end{aligned}$$

Using table C-2, when A is 60% and B is 20%, K_2 is 63.

$$\begin{aligned} SE(A+B) &= SE(120,000 + 40,000) = SE(160,000) \\ &= .63 \sqrt{20,000^2 + 10,000^2} = 14,087 \end{aligned}$$

The ratio $\frac{B}{A}$ of two estimates A and B in the same table is usually taken only when the estimates A and B are for cells with no trucks in common, i.e., when A and B do not overlap. The following formula can be used:

Formula C-3

$$SE\left(\frac{B}{A}\right) = K_3 \sqrt{\frac{SE^2(B)}{A^2} + \frac{B^2 SE^2(A)}{A^4}}$$

The constant K_3 is obtained from table C-3, in which A and B are expressed as percents of the total number of trucks in the State.

Using the previous example, approximate the standard error for $\frac{40,000}{120,000}$. In table C-3, when A is 60% and B is 20%, K_3 is 1.20.

Thus:

$$\begin{aligned} SE\left(\frac{B}{A}\right) &= SE\left(\frac{40,000}{120,000}\right) = SE(.33) \\ &= 1.2 \sqrt{\frac{10,000^2}{120,000^2} + \frac{40,000^2 \times 20,000^2}{120,000^4}} = .12 \end{aligned}$$

Switching the two estimates, i.e., letting A equal 40,000 and B equal 120,000, a similar calculation approximates the standard error for $\frac{120,000}{40,000}$.

$$\begin{aligned} SE\left(\frac{B}{A}\right) &= SE\left(\frac{120,000}{40,000}\right) = SE(3) \\ &= 1.2 \sqrt{\frac{20,000^2}{40,000^2} + \frac{120,000^2 \times 10,000^2}{40,000^4}} = 1.08 \end{aligned}$$

To express a cell estimate B as a percent of its row or column estimate A, the estimate is $100 \frac{B}{A}$, (i.e., B is contained in A). The following formula can be used:

Formula C-4

$$SE\left(100 \frac{B}{A}\right) = 100 K_4 \sqrt{\frac{SE^2(B)}{A^2} + \frac{B^2 SE^2(A)}{A^4}}$$

The constant K_4 is obtained from table C-4, in which A and B are expressed as percents of the total number of trucks in the State.

Example— From a State population of 200,000 trucks, the row estimate A for the number of pickups is 120,000 (60%) with an estimated standard error of 20,000. The number of pickups in Agriculture, or B, is 40,000 (20%) with an estimated standard error of 10,000.

In table C-4, when A is 60% and B is 20%, K_4 is .85.

Thus:

$$\begin{aligned} SE\left(100 \frac{B}{A}\right) &= SE\left(100 \frac{40,000}{120,000}\right) = SE(33\%) \\ &= 100(.85) \sqrt{\frac{10,000^2}{120,000^2} + \frac{40,000^2 \times 20,000^2}{120,000^4}} = 4.72\% \end{aligned}$$

To express a cell estimate A as a percent of the total number of trucks in the State N, the estimate is $100 \frac{A}{N}$ and the approximate standard error is:

$$SE\left(100 \frac{A}{N}\right) = \frac{100}{N} SE(A)$$

Example—Of the 200,000 total trucks in the State, there are 40,000 pickups in Agriculture with an estimated standard error of 10,000.

Thus:

$$SE\left(100 \frac{40,000}{200,000}\right) = SE(20\%) = \frac{100}{200,000} 10,000 = 5\%$$

Table C-1. Constants K_i for Use in Formula C-1 for the Difference A-B, A and B Do Not Overlap

Table C-2. Constants K_2 for Use in Formula C-2 for the Sum A+B, A and B Do Not Overlap

Table C-3. Constants K_c for Use in Formula C-3 for the Ratio $\frac{A}{B}$. A and B Do Not Overlap

Table C-4. Constants K_4 for Use in Formula C-4 for the Ratio $\frac{A}{B}$, B is Contained in A

A expressed as a percent of the total number of trucks in the State												B expressed as a percent of the total number of trucks in the State
1	5	10	20	30	40	50	60	70	80	90	95	99
.82	.91	.96	.98	.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1
.60	.81	.89	.92	.95	.97	.98	.99	.99	1.00	1.00	1.00	5
.62	.77	.85	.89	.93	.95	.97	.99	.99	1.00	1.00	1.00	10
.51	.67	.77	.85	.90	.94	.97	.99	1.00	1.00	1.00	20	
.47	.63	.74	.83	.90	.95	.98	1.00	1.00	1.00	1.00	30	
.44	.62	.74	.85	.93	.97	.99	1.00	1.00	1.00	1.00	40	
.44	.63	.77	.89	.95	.99	.99	1.00	1.00	1.00	1.00	50	
.47	.67	.85	.92	.98	1.00	1.00	1.00	1.00	1.00	1.00	60	
.51	.77	.88	.98	.98	1.00	1.00	1.00	1.00	1.00	1.00	70	
.62	.81	.96	.98	.98	1.00	1.00	1.00	1.00	1.00	1.00	80	
.60	.91	.90	.98	.98	1.00	1.00	1.00	1.00	1.00	1.00	90	
												95
												99